DIGIVOICE SYSTEM

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DIGIVOICE SYSTEM

PERFORMANCE CHARACTERISTICS

The DIGIVOICE System connects entrance panels to apartment stations in large and medium size residential complexes.

Compared to conventional systems, the DIGIVOICE provides the following major advantages:

- Complex multi-entrance systems can be set up for automatic switching between entrance panels without the need for additional switching relays.
- The system will generate a busy signal even when a call is made from the main entrance panel to an apartment station engaged in a call from a secondary entrance panel.
- The use of a numeric keypad plus an optional 10-letter alphabetic keypad ensures complete privacy for residents. However, if residents wish their names to be indicated on the entrance panel, directory nameplates and/or an entrance module with integrated electronic directory can be used.
- The system can be used with two-row Model 725, Domus Aura, Kombi and K-Steel entrance panels, which house the speaker unit with digitizer and any expansion cards which may be necessary.
- The system manages a set of numeric, alphabetic or alphanumeric codes to identify apartment stations (i.e., the doorphone or video doorphone sets located in each apartment). Codes between 1 and JJJJ can be assigned, giving a total of 159999 possible codes.
- Codes can be assigned to apartment stations independently of the riser cable to which they are connected.
- The system manages a set of numeric codes (called door lock release codes) for electric door lock operation. Codes consisting of any desired number of digits between 1 and 99999999 can be assigned. Pressing the ‘key’ button before and after entering the code ensures that it is not shown on the display.
- The system manages a set of codes for activating and deactivating special services such as stair lights, electric gate openers, and so on. Alphanumeric codes consisting of the numbers 1 through 999 and the letters A through JJJ can be assigned. Pressing the ‘0’ button before entering the code ensures that it is not shown on the display.
- The DIGIVOICE system ensures conversation privacy (only the apartment that has been called from the entrance panel can communicate with the visitor) with no need for additional or optional devices. The conversation can be maintained for no more than 10 minutes in order to ensure that the apartment station will automatically be disconnected if the handset is inadvertently left off the hook, and will be interrupted if other calls are made on the same line and the programmed minimum call duration has been exceeded.
- The system can be programmed so that only the apartment which has received a call from an outdoor station can activate the electric lock. This prevents doors from being opened inadvertently.
- Electric locks can be actuated through momentary trigger type controls to ensure that they are not damaged if the door lock release button is held down for an extended period. Low-current type door locks can also be controlled through holding current.
- Doorphone ring duration can be programmed, and is automatically limited if the call button is blocked or jammed.
- The system manages doorphone calls from the landing.
- Distinctive ringing tones are used to identify calls made from the main entrance panel, secondary entrance panels, guard door switchboard station, special doorphones and the landing.
- In its most complete configuration, consisting of main entrance panels, secondary entrance panels and apartment stations connected to riser cables, the system can be set up to permit simultaneous calls between two main outdoor stations and two apartment stations. This is accomplished by doubling the number of voice conductors (from two to four) between main and secondary stations, thus providing two different voice channels. When a call is made, the main entrance panel selects the most appropriate voice channel, and the secondary station involved changes to the channel selected by the main station and transfers the call to the riser cable.
- The system provides fully integrated, synchronous video and voice operation. If two voice channels are used, a double video channel can also be provided. Moreover, the system is designed so that apartment stations can activate communication with entrance panels with no need for additional wiring or conductors.
- The system can be used with hands-free doorphones, while mixed installations with both hands-free doorphones and conventional handset type doorphones can also be set up.
- The system can be used with a single guard door switchboard station, or with up to five guard door switchboard stations operating in parallel. Each switchboard station can manage all apartment station codes, or can be assigned specific sections of the system. Guard door switchboard stations can be connected with video module and/or camera.
- All system devices are easily programmed using a dedicated programming terminal. In addition, special-purpose D-VOICE programming software can be downloaded from our Internet site at http://www.urmetdomus.com”.
- The system is protected against static and impulse type electromagnetic interference. All equipment complies with the EC Electromagnetic Compatibility directive.

TYPES OF INSTALLATION

The DIGIVOICE system can be used in the following types of installation:

- Digital doorphone systems.
- Digital video doorphone systems
- Digital doorphone or video doorphone systems with one guard door switchboard station.
- Digital doorphone or video doorphone systems with up to five guard door switchboard stations operating in parallel or assigned to specific sections of the system.

All indoor equipment features modular design, so the devices can be installed singly or side by side on supports which ensure correct alignment.
Possible system configurations are shown schematically below.

DOORPHONE WITH DECODER

VIDEO DOORPHONE WITH DECODER (VIDEO MODULE + DOORPHONE WITH DECODER)

DOORPHONE

VIDEO DOORPHONE (VIDEO MODULE + DOORPHONE)

HANDS-FREE DOORPHONE

HANDS-FREE VIDEO DOORPHONE (VIDEO MODULE + HANDS-FREE DOORPHONE)

With the DIGIVOICE system, the following types of installation can be set up:

- Systems with a single outdoor station.
- Systems with multiple outdoor stations (up to a maximum of 7999) featuring automatic switching between stations.
- Systems with main entrance panels (up to a maximum of 7999) and secondary entrance panels (up to a maximum of 399).

The codes programmed for the secondary entrance panels and decoders are independent of the riser cable to which they are connected. The only constraint is that each call code must be unique. However, it should be borne in mind that the decoder must be programmed with the associated riser cable code, which must coincide with the riser cable code for the secondary entrance panel.
Consequently, the possible types of installation are as illustrated in the diagrams below.
In these diagrams, each apartment station is represented as a doorphone for the sake of simplicity. In reality, however, apartment stations may consist of any of the blocks shown in the figure above.
Any guard door switchboard stations (the system may use up to five) must always be connected on the line between the main entrance panels and the secondary entrance panels, or between the main entrance panels and the decoders in cases where there are no secondary entrance panels.

CODES 1÷ JJJJ Max. 159999

CODES 1 ÷ JJJJ Max. 159999

CODES 1 ÷ JJJ Max. 7999

CODES 1 ÷ JJJJ Max. 159999

CODES 1 ÷ JJ Max. 399

CODES 1 ÷ JJJ Max. 7999

As indicated earlier, the DIGIVOICE system can manage a second optional voice channel between the main and secondary entrance panels. This feature is extremely useful, particularly in large installations, because it significantly reduces the likelihood that a user will find a main entrance panel line to be busy. The additional speech signal power supply unit Ref. 1038/25 must be used in configurations with two voice channels.
An example is shown in the diagram below, where there are two simultaneous calls from main entrance panels, plus a third call from a secondary module.

1 2 1 2 1 2
1 2 1 2

INSTALLATION REQUIREMENTS

CONDUCTOR DESIGNATIONS

The following designations are used for DIGIVOICE system conductors:

- **Branch lines: 4/5 conductors** (between decoder and doorphone/ video doorphone)
  0V = Power supply ground
  CA = Doorphone call and service buttons (door lock release, call switchboard, etc.)
  FA = Outward voice conductor
  FB = Return voice conductor
  CV = Video call: video module drive

- **Riser cable: 5 conductors** (between secondary entrance panel and decoder)
  0V = Power supply ground
  +V = Power supply
  D = Data line
  FA = Outward voice conductor
  FB = Return voice conductor

- **Between main and secondary entrance panels**
  0D = Data line ground
  D = Data line
  FA1 = Outward voice conductor, line 1
  FB1 = Return voice conductor, line 1
  FA2 = Outward voice conductor, line 2 (optional)
  FB2 = Return voice conductor, line 2 (optional)

In DIGIVOICE video doorphone systems, a coaxial cable and two conductors are added to riser cables, while branch lines feature a single coaxial cable between main entrance panels and secondary entrance panels (or two cables if two voice channels are provided).

MAXIMUM SYSTEM EXTENSION

For installations with two or more riser cables, maximum system extension is defined as the total length of all line runs, i.e., common lines plus riser cables. It does not include branch lines from the decoder units to the apartment stations.
Maximum extension for a DIGIVOICE system is 3500 meters.

h i l m
c f
d b e g
n a p

Example:
a+b+c+d+e+f+g+h+i+l+m+n+p = 3500 m max.

MAXIMUM DISTANCE FROM DATA POWER SUPPLY UNIT

In the DIGIVOICE system, the data line is supplied by **one of the system's** power supply units, which is configured to perform this function by means of a jumper connection to terminals M1 and M2. This power supply unit, which is the only one of its kind in the entire system, is referred to as the 'MASTER' unit. All other power supply units are referred to as 'Slave'.
For the data transmission system to operate correctly, the maximum distance between the 'MASTER' power supply unit and the device located farthest from **it must under no circumstances exceed 1800 m**.

MAXIMUM NUMBER OF DEVICES CONNECTED IN SYSTEM

It should be borne in mind that there is a **physical limit to the number of devices** (decoders, entrance modules, guard door switchboard stations, etc.) that can be connected. **This limit is 400 devices per system**. However, as this limit does not include devices such as doorphones, monitors, etc. which are not connected to the data line, the number of users who can be served is far above 400. Where four-port decoders are used, for example, the maximum number is around 1600.

MAXIMUM NUMBER OF DEVICES CONNECTED TO A SINGLE POWER SUPPLY UNIT

Power supply unit Ref. 1038/20 supplies system device logic circuits through its terminals '+V', '0V'. In addition, it supplies the speech signal circuits of one or more entrance panels through terminals '+F', '0F', and, if configured as the MASTER unit, supplies the data line through terminals 'DU', '0D'.
The following points should be borne in mind concerning logic supply through terminals '+V', '0V'. The power supply unit is sized for a typical system configuration consisting of one entrance module Ref. 1038/15 and 35 four-port decoders Ref. 1038/34. Complex systems can be set up using two or more power supply units, each of which supplies a separate group of devices through output terminals +V/0V. **Never connect two or more power supply units in parallel**.
For example, in a system with one or more main entrance modules and one or more riser cables with associated secondary entrance module, it will be necessary to use:

- One power supply unit with circuit breaker for each riser cable.
- One power supply unit with circuit breaker for several main entrance panels (see below).
  The following rule of thumb can be used to calculate the maximum number of devices that can be installed:

1) Each DIGIVOICE device can be classified according to its consumption in load units (LUs) at terminals +V / 0V. For example:
   OUTDOOR DEVICES
   Entrance module Ref. 1038/10: 25 LU
   Entrance module with directory Ref. 1038/12 15 LU
   Entrance module with directory Ref. 1038/15 15 LU
   K-Steel entrance module with directory Ref. 1038/16 15 LU
   Additional alphabetic keypad Ref. 1038/72 3 LU
   K-Steel additional alphabetic keypad Ref. 1038/73 3 LU
   Speaker unit with digitizer Ref. 1038/62 5 LU
   K-Steel speaker unit with digitizer Ref. 1038/5 5 LU

   DECODING DEVICES FOR DOORPHONE AND/OR VIDEO DOORPHONE INDOOR STATIONS
   Guard door switchboard station Ref. 1038/40 40 LU
   Special doorphone Ref. 1138/18 3 LU
   Doorphone with single-port decoder Ref. 1138/31 1.5 LU
   Four-port decoder Ref. 1038/34 1.5 LU
   Four-port decoder with provision for calls from landing, video, mute function and door open LED Ref. 1038/35
   associated with doorphones w/o kit 1138/52 1.5 LU
   Four-port decoder with provision for calls from landing, video, mute function and door open LED Ref. 1038/35
   associated with doorphones with kit 1138/52 or
   associated with hands-free doorphones 1138/6 2.5 LU
   8-user decoder with video and door open
   led associated w/o 1.5 LU
   Doorphones w/o kit Ref. 1138/52 8-user decoder with
   video and door open led associated with 2.5 LU
   Doorphones with kit Ref. 1138/52 or associated with
   hands-free doorphones Ref. 1138/6
   Digivoice 4+n voice adapter Ref. 1038/67 0.25 LU
   Special Digivoice decoder Ref. 1038/80 2 LU
   Relay devices: Ref. 1038/68 5 LU
   Ref. 1038/69 1 LU
   Ref. 1032/9 3 LU

2) A maximum of 70 LUs can be connected to each power supply unit Ref. 1038/20.

Examples:

- Case 1:
  One entrance module with directory 1038/15 1 x 15 LU = 15 LU
  35 four-port decoders 1038/34 or 1038/35
  without kit 1183/52 35 x 1.5 LU = 52.5 LU
  TOTAL: = 67.5 LU

- Case 2:
  One entrance module 1038/10 1 x 25 LU = 25 LU
  28 four-port decoders 1038/34 or 1038/35
  without kit 1183/52 28 x 1.5 LU = 42 LU
  TOTAL: = 67 LU

- Case 3:
  One entrance module with directory 1038/15 1 x 15 LU = 15 LU
  22 four-port decoders 1038/35
  with kit 1183/52 22 x 2.5 LU = 55 LU
  TOTAL: = 70 LU

- Case 4:
  45 four-port decoders 1038/34 45 x 1.5 LU = 67.5 LU
  TOTAL: = 67.5 LU

WARNING: In complex systems, several entrance modules can be supplied by the same power supply unit.
In such cases, however, the Load Units rule of thumb outlined above cannot be used, and the maximum number of outdoor devices must not exceed:

- Three for entrance modules 1038/12 or 1038/15 or 1038/16
- Two for entrance modules 1038/10
- Eight for speaker units 1038/62 or 1038/5

NOTE: *In all cases, DO NOT supply devices other than entrance modules or speaker units.*

MAXIMUM NUMBER OF APARTMENT STATIONS PER BRANCH LINE

A maximum of two apartment stations can be connected to each branch line from a decoder Ref. 1038/34, 1038/35 or 1038/38. The codes associated with each apartment station and with any guard door switchboard stations **must be unique. Never assign two identical codes in order to make two apartment station ring at the same time.**

LINE RESISTANCE LIMITS

Line resistance limits are specified on the basis of three conductor categories: power supply conductors (+V, 0V), data line conductor (D) and associated reference ground (0D), and voice conductors (FA, FB, FA1, FB1, FA2, FB2, +F, 0F). In this context and in the following paragraphs, the term device is used to designate any item connected to the data line (e.g., entrance module, decoder, etc.).

POWER SUPPLY CONDUCTORS (+V, 0V)

Maximum permissible resistance on each of the two conductors is:

- 5.5 Ohm across power supply unit and the last decoder
- 0.5 Ohm across power supply unit and entrance module
- 1.5 Ohm across power supply unit and speaker unit

Maximum distance in meters between devices depends on cable cross-section as shown below.

Section (mm²)	0,75	1,5	2,5	4
Distance (m) from power supply unit to last decoder 1038/34	230	460	760	1200
Distance (m) from power supply unit to entrance module 1038/10 or /12 or /15 or /16	20	40	70	110
Distance (m) from power supply unit to speaker unit 1038/62 or /5	60	120	210	330

DATA LINE CONDUCTOR (D) AND GROUND (0D)

Maximum permissible resistance on the data line conductor is 14 Ohm. This resistance must be assessed across the 'MASTER' power supply unit and the device located farthest from it.
Maximum distance in meters between devices depends on cable cross-section as shown below.

Section (mm^2)	0,75	1,5	2,5	
Distance (m) from "MASTER" power supply unit to last device	580	1160	1800	

Where the system includes several power supply units, it is essential that the MASTER power supply unit's data line ground be connected to terminal (0D) on all SLAVE power supply units using a conductor whose resistance does not exceed 8.5 Ohm.
Required cable cross-sections are shown below.

Section (mm^2)	0,75	1,5	2,5	4
Distanza (m) from "MASTER" power supply unit to last "Slave" unit	350	700	1180	1800

VOICE CONDUCTORS (FA, FB, FA1, FB1, FA2, FB2, +F, 0F)

Maximum permissible resistance on each voice conductor is 1.8 Ohm across the speech signal power supply unit and entrance panel (wires +F, 0F), 2.5 Ohm across the speech signal power supply unit and the special doorphone located farthest from it (wires +F, 0F), and 29 Ohm across the entrance panel and the farthest apartment station (wires FA, FB, FA1, FB1, FA2, FB2).
Maximum distance in meters between devices depends on cable cross-section as shown below.

Section (mm^2)	0,75	1,5	2,5	4
Distance (m) from power supply unit to entrance panel (wires +F, 0F)	75	150	250	400
Distance (m) from power supply unit to special doorphone (wires +F, 0F)	100	200	350	500
Distance (m) from entrance panel to apartment station (wires +F, 0F)	1150	2300	3500	

WARNING: For installations with secondary entrance panels, the maximum permissible distance between entrance panels and indoor stations is the distance between the main entrance panels and the apartment station located farthest from them (add length of lines FA, FB to length of lines FA1,FB1 or FA2, FB2).

BRANCH LINE CONDUCTORS (0V, CA, CV, CP)

Maximum permissible resistance on each conductor is 1.8 Ohm. Remember, however, that the distance between decoder and apartment station must not exceed 50 meters.
Maximum distance in meters between devices depends on cable cross-section as shown below.

Sezioni (mm^2)	0,25	0,5		
Distance (m) from decoder to apartment station	22	50		

SYSTEM DESIGN

Before installing the system, it is necessary to determine which installation diagram is applicable. This diagram must be retained for future reference.
Once the desired system configuration has been identified, find the number of the diagram to be used in the table. Any diagrams which are not enclosed with this publication are available from our after-sales service.

See the section headed "DIGIVOICE Installation diagrams".

SYSTEM INSTALLATION

The system must be installed in accordance with accepted engineering practice.
Consequently, it is necessary to comply with:
- Applicable CEI standards
- The recommendations concerning system sizing and cable cross-sections listed in the following paragraphs.

CONDUCTOR ROUTING

The following factors must be considered when routing conductors:
- The surrounding electrical environment (i.e., sources of potential interference.
- System extension.

As regards interference, the DIGIVOICE system features a high level of intrinsic immunity to static and impulse type electromagnetic interference. All equipment complies with the EC Electromagnetic Compatibility directive.
However, several fundamental rules must be followed in order to improve interference insusceptibility.

1) Conductors for the riser cable and for doorphone branch lines must be routed at a minimum distance of 3 cm from all power lines in the building having a cross section of 2.5 mm^2 or less.

Digivoice lines
≥ 3 cm
Power line, cross section ≤ 2,5 mm^2

Here, power lines include 230 V mains lines, stair lighting lines, lightning conductor, low voltage lines for elevator alarm bells, etc. Where power line cross section is 4 mm^2 or over, DIGIVOICE conductors shall be routed in a separate conduit. Again, minimum distance is 3 cm.

Digivoice lines
≥ 3 cm
Power line, cross section ≥ 4 mm^2

2) Branch lines from decoder units to doorphones must not exceed 50 meters in length. Minimum line cross section is 0.5 mm2.
3) Spacing voice conductors (FA,FB,FA1,FB1,FA2,FB2) at least 3 cm apart from the remaining conductors (+V,0V,D) will improve speech signal quality. This reduces the effect of capacitive coupling between conductors, so that the slight hissing that can be heard on the voice channel during data transmission will be less perceptible.

Other important points are as follows:

1) Do not connect several conductors in parallel in order to reach the required cross-section. A single, and preferably flexible, conductor of appropriate cross-section must be used.
2) Do not use multi-core cables, as they produce high capacitive coupling between conductors.
3) Do not connect two or more power supply units in parallel (in other words, never connect power supply units to each other by means of terminals +V or by means of terminals +F, 0F).
4) Power supply units should be located in the vicinity of entrance panels.
5) Never exceed the maximum number of devices that can be connected to a single power supply unit.
6) All call codes must be unique. Never assign two identical codes in order to make two apartment stations ring at the same time.
7) In complex installations, do not leave open cable runs (i.e., with no decoders connected to the system backbone cable). If this is necessary to accommodate future expansion or for maintenance purposes, disconnect the open run from the backbone cable.

a
disconnect

DEVICE LOCATION

Where one or more devices must be located in damp areas or sites where they could be exposed to the weather, it is essential that they be placed in sealed, watertight containers.
Indoor devices should be installed in flush mounting back boxes separated from those used for telephone systems, electrical installations, TV antennas, etc.

DEVICE WIRING

DIGIVOICE system devices are provided with removable terminal blocks to facilitate maintenance and troubleshooting. Terminal blocks are removed by pulling upwards.
The maximum conductor cross-section that can be accommodated in a single terminal block is **1.5 mm²**.
Where conductors with larger cross-sections are used in the system, they must be spliced to conductors of appropriate size for connection to terminal blocks.
Wire must be stripped for a length of 5 to 6 mm using an adjustable professional-type wire stripper.
Where flexible conductors are used, it is essential that they be twisted to ensure that disconnecting terminal blocks will not cause wires to protrude, with the resulting risk of accidental short circuits across adjacent conductors.
If rigid wires are used, devices must be secured by means of screws or wall plugs so that they cannot move and break conductors.
All conductors connected to a terminal block should be bound together with a tie wrap, as this makes for a neater appearance and sturdier wiring.
Never join several conductors under the same terminal clamp, even if their cross-sections are small. Cap or screw terminals must be used for this purpose.
A neat, orderly wiring layout is an important factor in system design (and one which is often underestimated), as it will make it easier to locate any faults which may occur. The following measures are recommended.

1) Where possible, use different colored conductors for each signal, as indicated in the examples below:
   Riser cables:

BLUE	= FA
GREEN	= FB
BLACK	= 0V
WHITE	= D
RED	= +V

   Branch lines:

LIGHT BLUE (BLUE)	= FA
LIGHT GREEN (GREEN)	= FB
BLACK	= 0V
ORANGE (RED)	= CA

   Lines between main and secondary entrance panels:

BLUE	= FA1
GREEN	= FB1
BLACK	= 0V
WHITE	= D
RED	= +V
PURPLE	= FA2
BROWN	= FB2

If all of the colors suggested for branch lines are not available, use the same colors as in the riser cable (indicated in brackets), separating the conductors with tie wraps and marking them appropriately.

2) If wires cannot be identified by using different colors, mark them with tie wraps.
3) Always write down the codes programmed in the decoders on the labels provided for this purpose.
4) Where doorphones with single-port decoders are used, disconnectable junctions should be installed outside of the apartment so that work can be carried out on the riser cable even if the occupant is not at home. This applies to all devices which must be located on private premises.
5) In systems with several riser cables whose wiring is grouped together at the same point, mark each conductor with the codes for the riser cable of which it is a part.

SYSTEM ACTIVATION

How activation is accomplished is fundamental to the installation's success. Whether the system is complex or relatively simple, the following steps must be performed.
It is recommended that the programming terminal Ref. 1038/55 be used to program the system. In particular, the terminal facilitates decoder programming, as this operation can be carried out with the system off. Recommended procedure is as follows:

1) Using the programming terminal, program the decoders, either before connecting them to the system or immediately after they are installed. Write the codes programmed in the decoders on the labels provided for this purpose to prevent confusion during installation and facilitate maintenance.
2) Wire the system and carry out preliminary checks with the system off.
3) Turn on the system.
4) Program all other devices.
5) Carry out system operation checks.

If the programming terminal cannot be used, proceed as follows:

1) Wire the system and carry out preliminary checks with the system off.
2) Turn on the system.
3) Program all devices.
4) Carry out system operation checks.

PRELIMINARY CHECKS WITH SYSTEM OFF

Upon completing installation and **before** supplying power to the system, proceed as described below:

1) Check that there are no short circuits in riser cable wiring.
2) Check logic circuit connections on power supply units 1038/20: logic circuit supply wires must be connected to terminals '+V' and '0V', taking care to ensure that polarity is correct.
3) Check speech signal circuit supply connections on power supply units 1038/20 or 1038/25: entrance panel speech signal circuit supply wires must be connected to terminals '+F' and '0F', taking care to ensure that polarity is correct.
4) Check data line connections on power supply units 1038/20: on each power supply unit, the incoming data line must be connected to terminal 'DE' and the outgoing data line to terminal 'DU'.
   Only one power supply unit in the system must have no connections to terminal 'DE': this is the 'MASTER' power supply unit, which the installer has configured by means of a jumper connection on terminals 'M1' and 'M2'.

ACTIVATION

1) Supply power to the system
2) Check that the green ON LED is flashing on only one power supply unit (the 'MASTER' unit).
3) Check that the green ON LED on all other power supply units is on, but does not flash.
4) Check that the red LED on all power supply units is off.

PROGRAMMING

1) Program the entrance panels, preferably by means of the programming terminal. Alternatively, the entrance panel keypad may be used.
2) If the programming terminal is not available, program the decoders at this point, using the entrance modules. Remember to write down the codes on the labels provided for this purpose.
3) Make sure that the decoder riser cable codes coincide with the code assigned to the secondary entrance module located at the base of the stairway associated with each riser cable.
4) Program the guard door switchboard stations, if provided.

SYSTEM OPERATION CHECKS

Carry out the following checks in the order indicated.
For all apartment stations in the system:
1) Call the apartment station from the entrance module and check that the correct ringing tone is produced.
2) Answer the call by lifting the apartment station handset and check that voice signals are sent and received.
3) Press the door lock release button and check that the electric lock connected to the entrance module from which the apartment station was called is actuated.
4) Hang up the apartment station handset.

NOTE: *If it is not possible to gain access to the apartment station, operation MUST be checked by means of a test doorphone connected to the decoder terminal block for the apartment station involved.*
For systems with main entrance panels, secondary entrance panels and two voice channels, check that both voice channels operate correctly by making calls to two different riser cables from two separate main entrance panels.

SYSTEM EQUIPMENT

Outdoor equipment

Ref. 1038/10	Digital entrance module with display
Ref. 1038/12	Call module with multi-lingual electronic directory
Ref. 1038/15	Digital entrance module with electronic directory (*)
Ref. 1038/72	Additional alphabetic keypad
Ref. 1038/16	K-Steel entrance module with electronic directory
Ref. 1038/73	K-Steel additional alphabetic keypad
Ref. 1038/62	Speaker unit with integrated digitizer
Ref. 1038/5	K-Steel speaker unit with digitizer
Ref. 1038/17	16-pushbutton expansion module
Ref. 825/70-/79	Door camera modules for Kombi entrance panels
Ref. 1755/70-/79	Door camera modules for K-steel armored entrance panels
Mod. 725	Video outdoor station
Mod. 825	Video outdoor stations
Mod. Domus Aura	Video outdoor stations
Mod. K-Steel	Video outdoor stations

Indoor equipment

Ref. 1038/34	Four-port decoder
Ref. 1038/35	Four-port decoder with provision for video doorphone connection, calls from landing and door open LED
Ref. 1038/38	8-user decoder with video and door open led
Ref. 1038/80	Special Digivoice decoder
Ref. 1038/40	Guard door switchboard station
Ref. 1038/70	Guard door switchboard station/telephone interface or PABX adaptor circuit
Ref. 1038/67	Digivoice 4+n voice adapter
Ref. 1138	White doorphone w/o keys
Ref. 1138/2	White doorphone with two keys
Ref. 1138/18	Special doorphone
Ref. 1138/31	Doorphone with single-port decoder
Ref. 1138/6	Hands-free doorphone
Ref. 1138/55	Speakerphone circuit for hands-free doorphone 1138/6 or /7
Ref. 1732/1	White 4" video module
Ref. 1732/92	Video module wall bracket
Ref. 1732/56	Monitor tabletop mounting conversion kit
Mod. Sentry +	Video door phone black and white 50Hz, 4,5'' monitor, with door opener button and 2 service buttons. (direct or reflexvision version).
Ref. 1704/50	Tabletop mounting conversion kit for Sentry+ monitor, without bracket.
Ref. 1704/60	Semi-flush mounting box for monitor 1704/1 or 1704/1A.
Ref. 1704/92	Coaxial bracket for Sentry+ monitor for Digivoice systems.

Power supply units - Relays

Ref. 1038/20	45 VA - 230V~ power supply unit with circuit breaker
Ref. 1038/26	45 VA - 110V~ power supply unit with circuit breaker
Ref. 1038/25	Additional 7 VA - 110/230V speech signal power supply unit
Ref. 789/2	Local power supply unit for 1 additional monitor
Ref. 1742/20	Video power supply unit
Ref. 1840/22	Secondary camera power supply unit
Ref. 1038/68	Relay for video doorphone systems
Ref. 1038/69	4-input / 1-output video switch
Ref. 1032/9	Relay for special video doorphone systems

Other equipment

Ref. 1038/56	Multi-lingual programming terminal
Ref. 1794/4	Video splitter
Ref. 1038/90	Passive wiring block on DIN rail

Doorphone accessories

Ref. 1132/55	Additional key kit
Ref. 1138/52	Mute key + Digivoice LED kit
Ref. 1132/53	Ringer volume control kit
Ref. 1132/50	White tabletop mounting conversion kit
Ref. 9854/41	Supplementary ringer for electronic call tone signaling
Ref. 9854/42	Supplementary three-tone ringer
Ref. 788/21	Ring repeater relay

(*) *Will be replaced by entrance module with multi-lingual directory Ref. 1038/12.*

CALL MODULES

Sec. Pag.

CALL MODULES

ENTRANCE MODULE Ref. 1038/10

CALL MODULE WITH MULTI-LINGUAL ELECTRONIC DIRECTORY Ref. 1038/12

OUTDOOR STATIONS ON KOMBI ENTRANCE PANELS

DIGIVOICE

SECTION 2 CONTENTS

DIGIVOICE SYSTEM

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ADDITIONAL ALPHABETIC KEYPAD Ref. 1038/72

K-STEEL ENTRANCE MODULE WITH ELECTRONIC DIRECTORY Ref. 1038/16

ADDITIONAL ALPHABETIC KEYPAD Ref. 1038/73

ENTRANCE MODULE Ref. 1038/10

ENTER CODE AND PRESS TO DELETE ERRORS X

Entrance module Ref. 1038/10 employs two-module Kombi series mechanical componentry and is supplied without flush mounting back box and associated module chassis (available separately). To ensure installation security, the entrance panel is supplied with a special tamper-proof screw.

FEATURES

- Doorphone or video doorphone calling (video calling only if combined with door camera unit Ref. 825/70).
- Automatic doorphone or video doorphone traffic management on the basis of the number of available voice lines (1 or 2).
- Provision for assigning numeric or alphanumeric call codes (if combined with additional alphabetic keypad Ref. 1038/72). Up to 159999 different call codes can be used.
- Provision for managing up to two direct call keys (if combined with module Ref. 825/201 or 825/202) for calling specific users or the guard door switchboard station.
- Up to 240 door lock release codes.
- Up to 7999 codes for special services.
- Momentary trigger type door lock release (unrestricted or protected by privacy feature) with holding current timer control (1 to 30 seconds) of low current draw electric door locks.
- Audible electric door lock actuation signal.
- Ringing duration programmable from 1 to 5 seconds.
- Distinctive ringing: continuous tone for main entrance modules, intermittent tone for secondary entrance modules.
- Audible 'call routed' and 'call over' signals.
- Audible service signals adjustable in intensity.
- Door-open sensor interface.
- Self-activation function, with no need for dedicated wiring.

MS MP2 MP1 S/N ....

The entrance module consists of the following:

1) Two-module Kombi series faceplate.
2) Scratchproof adhesive instruction label (module is supplied together with labels in five different languages; select the appropriate label during installation).
3) Four-digit red display protected by transparent polycarbonate cover.
4) Numeric keypad with green backlit keys, complete with yellow backlit 'Delete, 'Key' and 'Call' buttons.
5) Removable terminal blocks for system connections (MP1, MP2, MS).
6) Connector for additional alphabetic keypad (Ref. 1038/72).
7) Label indicating device serial number (S/N).
8) Connector for programming terminal Ref. 1038/56.
9) Entrance module speaker volume control.
10) Programming pushbutton. Used only when password is not known.
11) Removable terminal blocks for local auxiliary services (MA) and video signals (MV).

TERMINAL DESIGNATIONS

MP1 - Main Voice Terminal Block 1

+V	Power supply positive (+24V)
0V	Power supply and data line ground
D	Data line
FA1	Outward voice conductor 1
FB1	Return voice conductor 1

MP2 - Main Voice Terminal Block 2

FA2	Outward voice conductor 2
FB2	Return voice conductor 2
+F	Voice power supply positive (+33V)
0F	Voice ground

MS - Secondary Terminal Block

+V	Power supply positive (+24V)
0V	Power supply and data line ground
D	Data line
FA	Outward voice conductor
FB	Return voice conductor

MA - Auxiliary Terminal Block

SE-	Electric lock drive output - negative
SE+	Electric lock drive output - positive
0V	Key/contact/pushbutton common
T2	Direct call key 2 input
T1	Direct call key 1 input
SP	Door sensor input
H	Door lock release code disabling contact input
P	Postal service door lock release contact input
PH	Lobby door lock release pushbutton input

MV - Video Terminal Block

+V	Power supply, Ref. 1038/68 video entrance panel relay
SC	Drive output, Ref. 1038/68 video entrance panel relay - riser cable
SL	Drive output, Ref. 1038/68 video entrance panel relay - local
S12	Drive output, Ref. 1038/68 video entrance panel relay - channels 1/2
0V	Ground, Ref. 1038/68 video entrance panel relay
S1	Drive output, Ref. 1032/9 video entrance panel relay - channel 1
S2	Drive output, Ref. 1032/9 video entrance panel relay- channel 2
0V	Ground, Ref. 1032/9 relays

SPECIFICATIONS

Consumption in load units: **25 LU**

Logic circuits

Logic circuit supply voltage (+V/0V): **15 to 25.2 V DC**

Max current draw **~ 500 mA**

Voice circuits

Voice circuit supply voltage (+F/0F): **30 to 36 V DC**

Service temperature range: **- 10 to 50 °C**

OPERATION

CALLS WITH CODE ENTRY

The code entered on the entrance module keypad (and, optionally, on the additional alphabetic keypad 1038/72) is shown on the display. An acoustic signal is generated each time a key is depressed.
When the ‘Call’ button is pressed, the call will be sent to the station corresponding to the displayed code. The ringer at the called apartment station will be activated for the programmed time (from 1 to 5 seconds), with a continuous ring tone (main entrance module) or an intermittent tone (secondary entrance module). Three audible beeps will confirm that the call has been forwarded. Pressing the call button again will extend the ringer activation time.
If an error is made when entering the code, pressing the delete button ‘X’ will cancel the number shown on the display.

DIRECT CALLS

Calls can be made to two designated users by pressing the direct call keys on module 825/202, where provided. In addition, the guard door switchboard station 1038/40 (where provided) can be called simply by pressing the ‘Call’ button without entering a code. Alternatively, if the system is equipped with module 825/202, one of the two direct call keys can be programmed for the switchboard station.

ADDITIONAL CODES AND FUNCTIONS

The entrance module can manage three separate code sets:

- **Call codes (1- JJJJ)**
  These codes identify doorphone or video doorphone apartment stations. When entering codes, those consisting of fewer than four numbers or letters must NOT be preceded by zeros (e.g., enter “12A”, rather than “012A”). After entering the call code, press the ‘Call’ button to send the call.

- **Door lock release codes (ONLY numeric codes: 1-99999999)**
  Door lock release codes enable residents or other persons to open the door directly. The ‘Key’ button must be pressed before and after entering a door lock release code. Pressing the ‘Key’ button before entering the door lock release code ensures that it does not appear on the display, which will thus show a special symbol followed by vertical bars instead of the code: ‘o|||’.
  Door lock release codes can be disabled during certain selected time periods by means of a timer-controlled external switch operating across terminals ‘H’ and ‘0V’.

- **Special codes (1- JJJ)**
  Special codes can be used to activate and deactivate auxiliary services such as stair lights, outdoor lighting, etc. Special codes must always be preceded by a ‘0’ (this prevents the code from appearing on the display, which will show a 0 followed by vertical bars instead of the code) and followed by pressing the ‘Call’ button. Special codes are also used to view the status of an input, which will be shown on the display as ‘On’ or ‘OFF’.

NOTE 1: If an error is made when entering a code of any kind, press the delete button ‘X’: this will clear the code from the display.
NOTE 2: If the entrance module is provided with nameplates, it is advisable to indicate the ‘Call’ button bell symbol after the code.
Example:
Mr. John Smith: 5230 ‘Call’

DECODER PROGRAMMING

The installer can use entrance module 1038/10 to program the decoders. Programming parameters and methods are described in the decoder instruction manual.
When a parameter has been successfully programmed, the module display will show:

PR 1

If programming is unsuccessful, the display will show:

PR 0

PROGRAMMING

PROGRAMMING METHODS

Once it has been supplied with power, the entrance module can be programmed in three different ways:

1) By means of programming terminal Ref. 1038/56. This is the recommended method, as the terminal's display simplifies programming operations. The terminal can be connected either:
   - Locally, to programming connector (8) located at the rear of the entrance module to be programmed.
   - To any other entrance module or guard door switchboard station in the system.
   - To any passive wiring block (Ref. 1038/90) connected to the system.
2) Locally by means of the keypad, without opening the entrance module chassis. This method can only be used if the configuration access password is known.
3) Locally by means of the keypad, after opening the entrance module chassis to gain access to the rear programming pushbutton (10).

PARAMETERS

The following 12 parameters must be programmed.

0) Installation site
This parameter can be programmed (and read) only by means of the programming terminal. It is a 15-character string which must be used to assign an easily remembered name to the entrance module, e.g., 'Main Road Entrance', 'Riverside Drive, 'Stair A', 'Stair B', etc. In reality, up to 30 characters can be entered, but the terminal display will show only the first 15 in fast find mode. It is thus advisable to limit the entrance module name to 15 characters, and use the remaining characters for any additional information which may be necessary.

1) Type of entrance panel
The module can be configured as a main entrance panel (0), i.e., one from which calls can be made to all apartment stations or to the guard door switchboard station, or as a secondary entrance panel (1), from which calls can be made only to the apartment stations on the module's own riser cable.

2) Entrance panel code
Whether configured as main or secondary, each entrance panel is identified by a code. However, the codes that can be assigned to an entrance panel will depend on the latter's type as follows.
- Main entrance panels can be assigned codes from '1' to 'JJJ';
- Secondary entrance panels can be assigned codes from '1' to 'JJ'. The code indicates the associated riser cable.

3) Engaged time
The programmed engaged time establishes the minimum duration of a call (including the time lapsing between the moment the call is sent from the entrance panel and the moment it is answered at the indoor station). To guarantee this minimum duration in situations where several calls are being made at the same time, the system can put one or more entrance panels in 'Busy' status. In such cases, the word 'Busy' will flash on the display. When an entrance module is in busy status, it cannot be used to make calls, though door lock release codes can still be entered.
Engaged time can be programmed as 10, 20, 30 or 40 seconds.

4) Electric lock management
Door lock release from apartment stations may be unrestricted (0) or protected by privacy feature (1): in the first case, the door lock can be released at any time, while in the second case it can be released only while a call is in progress.
The criteria selected for electric lock management is essential to correct system operation.

STRICTLY ADHERE TO THE INSTRUCTIONS BELOW: CONFIGURATIONS OTHER THAN THOSE DESCRIBED CANNOT BE USED.

- In installations with a single main entrance panel and no secondary entrance panels, the entrance panel may be configured either for UNRESTRICTED DOOR LOCK RELEASE or for DOOR LOCK RELEASE PROTECTED BY PRIVACY FEATURE.
- In installations with at least one secondary entrance panel, it is essential that the main entrance panel or panels be programmed for DOOR LOCK RELEASE PROTECTED BY PRIVACY FEATURE.

The secondary entrance panel(s) can be programmed either for UNRESTRICTED DOOR LOCK RELEASE or for DOOR LOCK RELEASE PROTECTED BY PRIVACY FEATURE.
In the first case, pressing the apartment station door lock release button in response to a call from a main entrance panel will release the lock connected to the main entrance panel from which the call was made, as well as the lock connected to the secondary entrance panel associated with the apartment station concerned.
In the second case, pressing the apartment station door lock release button in response to a call from a main entrance panel will release only the lock connected to the main entrance panel from which the call was made: a second call will have to be made from the secondary entrance panel before the lock connected to it can be released.

5) Door lock release time
The programmed door lock release time establishes the duration in seconds of the electric lock holding current. NOTE: for electric strike locks, ALWAYS set door lock release time to 0.
ONLY for low current consumption locks, door lock release time may be set between 1 and 30.

6) Ring duration
Indicates the length of time that the apartment station doorphone will ring.
It is advisable to program all entrance panels for the same ring duration. Ring duration can be 1 to 5 seconds.

7) Number of voice lines
The number of voice lines between the system's main and secondary panels must be specified.
This parameter can be set to either '1' or '2'.

8) Buzzer volume
Sound intensity of the audible signals produced by the module (key pressed, call routed, call over, etc.) can be set to three levels: Minimum (Min), Medium (Med), and Maximum (Max).

9) Code associated with direct call key T1
Where module Ref. 825/201 or /202 is installed, the code associated with the first direct call key must be specified. If the key is to send calls to a specific guard door switchboard station – in both day service and night service modes, but not when the station is inactive - program the desired guard door switchboard station's code.
Conversely, if the key is to send calls to any of the system's guard door switchboard stations which are in 'day A' status, program '0000'.
Codes between '0000' and 'JJJJ' can be assigned.

10) Code associated with direct call key T2
This is the code assigned to the second direct call key on module Ref. 825/202 (where provided).
Codes between '0000' and 'JJJJ' can be assigned.

11) Configuration access password and door lock release code programming password.
ONLY four-digit numeric passwords can be used.
Once programmed, the password can be used to access the module configuration procedure without having to open the Kombi chassis.
Programming the configuration access password automatically enables a second password which can be used to program door lock release codes. This second password will be the same as the first password plus 1. For example, if the programmed configuration password is '1234', the door lock release code programming password will thus be '1235'.
In this way, the installer can disclose ONLY the door lock release code programming password to the building manager, concierge, etc., thus ensuring that there is no risk of access to configuration parameters.
Passwords between 0001 and 9998 can be programmed.

PROGRAMMING WITH TERMINAL 1038/56

Programming by means of the terminal must be performed with the system on.

- Turn on the terminal, holding down the 'ON' key for at least 3 seconds.
- Plug the programming cord into the associated socket (8) or, alternatively, into another entrance module, guard door switchboard station or passive wiring block. The terminal will automatically be connected to the data line, and the display will show the following message for 3 seconds:

```
Programming
```

This will be followed by:

```
Find:
<Serial Number>
<Type>
<Acquisition>
```

- Select the option <Serial Number >. The display will show:

```
Serial number:
000000
```

Type in the entrance module serial number shown on the rear label (7) alongside the designation S/N and press ↵. The display will show:

```
MDC     SN: uvwxyz
- - - - - - - - - - - - - - - -
Road. . . . . . . . . . .
```

At this point, the terminal is logically connected to the entrance module (MDC) which has the selected serial number ('uvwxyz').
The entrance module display will show the flashing message 'Maint' to indicate that the module is in 'Maintenance' status.

NOTE: *In 'Maintenance' status, the entrance module will continue to control the electric lock when the lobby pushbutton or postal service door lock release contact is actuated.*

- The 12 entrance module configuration parameters can now be programmed. Parameters are shown on six screen pages:

(Page 1: Device detected (MDC) and Serial Number, neither of which can be changed; Installation site)

```
MDC     SN: uvwxyz
- - - - - - - - - - - - - - - -
Road. . . . . . . . . . .
```

(Page 2: Type, Code, Engaged Time, Lock Management)

```
Type: P  Code: 001
- - - - - - - - - - - - - - - -
Busy: 10 s
Lock rel.: S-00 s
```

(Page 3: Ring Duration, Number of Lines, Buzzer Volume)

```
Call: 03 s
Lines: 1
Buzzer: 2
```

(Page 4: Direct Call Key T1 and T2 codes, Password)

```
Key  1: 0000
Key2: 2: 0000
Password: 9998
```

- Use the ← and → keys to move to the desired parameters, select options using the 'sp' key, program by means of the alphanumeric keys, and press ↵ to confirm.

- Press → (or ←) several times in succession to view the next page.

```
<Lock Release Codes>
<Cancel>
<Program>
<Exit>
```

- Move the cursor to 'Program' and press ↵. The terminal will write programmed data in the entrance module memory and display the outcome of the write operation.
- Go on to the page with the <Exit> option, move the cursor to the option and press ↵. At this point (and ONLY at this point), the entrance module will exit from the maintenance status and return to normal operation.
- Disconnect the programming cord and turn off the terminal by holding down the 'OFF' key for at least 3 seconds, or, if further entrance modules connected to the system are to be connected, repeat the steps described above.

LOCAL PROGRAMMING FROM KEYPAD

The programming sequence can be accessed in two ways:

a) **If the configuration access password is known** (all units are programmed at the factory with the password '9998'), enter '00' followed by the 4-digit password and press the 'Call' button. If the password is incorrect, the display will show 'Err0'. After the third unsuccessful attempt, password entry will be blocked for a period whose length will increase with the number of unsuccessful attempts as shown below:

Nr. of unsuccessful attempts	Delay before another password can be entered
1	-
2	-
3	-
4	1 minute
5	2 minutes
6	3 minutes
•	•
•	•
255	252 minutes (over 4 hours)

b) **If the password is not known**, open the Kombi chassis and press the red pushbutton (10) at rear.
After the correct password is entered – or after the red pushbutton (10) is pressed - the following information will appear on the display in the order shown:

r10b	-uvw	xyz-

The first screen display indicates the software release (1.0 in the example shown) and the maximum number of door lock release codes that can be programmed, which here is 240 as designated by the letter 'b'. The next two lines indicate the device's serial number ('uvwxyz'), which is the same as the number shown on the rear label alongside the designation S/N (this makes it possible to identify the serial number WITHOUT opening the Kombi chassis). The next digits to appear regard the first of the 11 programming steps (when programming is performed locally from the keypad, parameter '0' - Installation Site - can neither be viewed nor changed). The programming procedure is the same for all steps:

- The digit on the left indicates the number of the programming step (except for the last three steps, for which the digit is not shown).
- The flashing digit on the right indicates the setting programmed in memory for this step. The programmed setting can be confirmed immediately by pressing the 'Call' button, or changed and then confirmed, again by pressing the 'Call' button.
- If a mistake is made when entering settings, the error can be deleted by pressing the 'X' key. The former setting will return to the display.

NOTE: *To exit from the programming procedure at any time before reaching the last step, simply hold down the 'X' key for more than 3 seconds. All data entered up to this point will remain in memory. The entrance module will return automatically to normal operation if no key is pressed for a period exceeding three minutes.*

DOOR LOCK RELEASE CODE ENTRY

A maximum of 240 door lock release codes can be entered in entrance module memory.
Only numeric codes can be used. Each code may consist of any desired number of digits between 1 and 8. The possible range is thus 1 to 99999999.

CODE ENTRY METHODS

Door lock release codes can be programmed in two different ways:
1) By means of programming terminal Ref. 1038/56 connected either locally or at any other point of the system.
2) Locally by means of the keypad. This method can only be used if the door lock release code programming password (which is DIFFERENT from the configuration access password) is known.

CODE ENTRY WITH TERMINAL 1038/56

After establishing a logic connection with the entrance module in question (see the description provided in the paragraph headed 'PROGRAMMING WITH TERMINAL 1038/56'), go to the page:

```
<Lock Rel. Codes>
<Cancel>
<Program>
<Exit>
```

- Select <Lock Rel. Codes> and press ↵.
The first three door lock release codes will appear:

```
Apr001:00000000
Apr002:00000000
Apr003:00000000
<B><N><OK><EX>
```

- Enter the desired code(s), use the ← and → keys to move to the <OK> command, and press ↵.
WARNING: THE THREE CODES WILL BE STORED IN ENTRANCE PANEL MEMORY ONLY AFTER THEY HAVE BEEN CONFIRMED BY MEANS OF THE <OK> COMMAND. A display message will appear when the codes have been stored.
- To access the next three codes, select <N> and press ↵. To go back to the three previous codes, select <B> and press ↵.
- After programming all codes, select <EX> and press ↵. Then use the ← key to return to the previous page, select <Exit > and press ↵.
- Disconnect the programming cord and turn off the terminal by holding down the 'OFF' key for at least 3 seconds, or, if the same door lock release codes are to be programmed in another entrance module connected to the system, repeat the steps described above.

NOTE: *A door lock release code can only be deleted by reprogramming it to '00000000'.*

CODE ENTRY FROM KEYPAD

- Enter '00' followed by the 4-digit door lock release code programming password and press the 'Call' button. If the password is incorrect, the display will show 'Err0'. After the third unsuccessful attempt, password entry will be blocked for a period whose length will increase with the number of unsuccessful attempts as shown below:

Nr. of unsuccessful attempts	Delay before another password can be entered
1	-
2	-
3	-
4	1 minute
5	2 minutes
6	3 minutes
•	•
•	•
255	252 minutes (over 4 hours)

After the correct password is entered, the display will show:

A- - -

The letter 'A' indicates that the door lock release code configuration procedure has been successfully accessed.

- At this point, select the code to be entered or changed. This can be done in two ways:
  - Enter a number between 1 and 240 and then press the 'Call' button; any errors can be deleted by means of the 'X' key. For example, to enter or change the first code, simply press key '1' followed by the 'Call' button.
  - Hold down the 'Call' button for more than 3 seconds: the device will emit a beep, automatically find the first door lock release code available for entry, and present it on the display. Press the 'Call' button again to enter this code in memory.
- The first four digits of the door lock release code in question will appear on the display in non-flashing mode. For instance, if the code **1098 2685** is already contained in memory, the display will show:

1098

If the first four digits of the code are to be changed, enter the desired digits from the keypad and press the 'Call' button. If they are to be retained, simply press the 'Call' button.

- At this point, the four least significant digits of the door lock release code will appear on the display in flashing mode:

2685

The second part of the code can be changed or retained. At the end of the operation, press the 'Call' button: the program will now be ready for selection of another door lock release code.

- Repeat the procedure described above for all door lock release codes to be programmed.
- To return to normal entrance module operation, hold down the 'X' key for at least 3 seconds.

NOTE 1: *When the first four digits of codes smaller than the number 1000 0000 appear on the display, the missing digits will be replaced by zeroes.*
For example, the number 79 3543 will be displayed as 0079, 8 3518 will be displayed as 0008, and 1001 will be displayed as 0000.

NOTE 2: *A door lock release code can only be deleted by reprogramming it to '00000000'.*

NOTE 3: *Codes which do not exist in memory will be displayed as follows:*

_ _ _ _

INSTALLATION

WARNING: Be sure to follow the instructions indicated in the section headed "Installation Requirements" when setting up wiring. This section also specifies the maximum permissible cable lengths.

The entrance module must be installed on a Kombi series chassis (not supplied with module).
The adhesive instruction label should be applied to the entrance module at the time of installation, selecting the appropriate language version.
The tamper-proof screw supplied together with the module must be used in place of the standard screw supplied with the Kombi series chassis to ensure greater installation security.
If the entrance module is combined with additional alphabetic keypad Ref. 1038/72, the latter must be placed BELOW (or if this is not possible, ALONGSIDE) entrance module 1038/10.
For examples of modular installation, see the section headed "Outdoor stations on Kombi entrance panels - Installation".

SPEAKER VOLUME ADJUSTMENT

Voice level to apartment stations is set at the factory, and requires no adjustment.
Speaker volume at entrance panel is set to medium at the factory. If volume requires adjustment, do so using a screwdriver applied to volume control (9).

ERROR CODES

Several types of error can be shown on the display.

ERRORS DURING NORMAL OPERATION

Err7 Call to nonexistent station.

ErrC Call from a secondary entrance module to a station on another riser cable.

Err1 One or more keys jammed.

ErrA Door lock release code nonexistent or disabled.

ERRORS DURING INSTALLATION

Err3 No signal on data line (terminal 'D' not connected or signal absent).

Err0 Incorrect password entered.

SELF-DIAGNOSTICS

ErrE Data memory fault.
ErCE Data memory checksum error.

TROUBLESHOOTING AND REPLACEMENT

ELECTRIC LOCK

If the electric lock fails to open, the cause can be readily identified as follows:

- If the entrance module emits an audible signal but the electric lock does not open, the problem is in the line between the module and the electric lock, or in the module control circuitry.
- If the entrance module does not open the electric lock and also fails to emit an audible signal, the door lock release command does not reach the module: the problem is on the apartment station side.

REPLACEMENT PROCEDURE

Replace the entrance module in the event of malfunction.
If a large number of door lock release codes have been programmed, the integrated circuit in which the codes are stored can be removed and installed in the new module.

- Turn off power supply to the old entrance module 1038/10.
- Take off the rear cover, pressing lightly on the side clips.
- Remove integrated circuit U3.
- Take the rear cover off the new module and replace integrated circuit U3, taking care to orient it in the right direction (i.e., aligning the locating lugs provided on the component body and on the socket).
- Reinstall cover.
- **NOTICE: After replacing the memory chip, the serial number of the new entrance module will automatically become that of the old module. Change the serial number shown on the rear label (7) by hand.**
- Supply power to the new entrance module.

CALL MODULE WITH MULTI-LINGUAL ELECTRONIC DIRECTORY Ref. 1038/12

The Ref. 1038/12 Call Module is based on Kombi mechanics with 2 modules. Although it is not equipped with the embedding box and related module-holder frame (which can be bought separately), it is complete with anti-theft screw for security of installation.

CAPABILITIES

The Ref. 1038/12 Call Module with repertory provides the following capabilities:

- possibility of forwarding a house phone or video house phone call (in combination with the Ref. 825/70 TV camera unit);
- automatic management of house phone and video house phone traffic according to the number of voice lines available (1 or 2);
- selection, using scroll keys and a 2-line, 16-character back-lit alphanumeric display of the name to be called. Up to 740 separate names are available;
- direct selection, via keyboard, of an alphanumeric call code (in combination with the Ref. 1038/72 Additional Alphabetic keyboard). This means that up to 159999 separate call codes are available;
- possibility of managing up to 2 direct call keys (in combination with the Ref. 825/201 or 825/202 module) for calls to specific users or to a main entrance switchboard;
- up to 980 lock release codes divided into two categories: 240 codes independent of the names, for general use, plus another 740 codes associated to the individual names;
- up to 7999 codes for special services;
- impulse type lock release (free or with secrecy) with maintenance current for timed driving (from 1 to 30 seconds) of a low absorption electric lock;
- acoustic and visible signaling of driving of the electric lock;
- programmable call tone duration from 1 to 5 seconds;
- differentiated generation of the call tone, continuous tone in the case of main module, intermittent tone if a secondary module;
- ‘call forwarded’ and ‘end of conversation’ acoustic signals;
- adjustment of service and acoustic signal intensity;
- interface for door open sensor;
- possibility of programming the names using the Ref. 1038/56 programming Terminal; direct access to programming (for minor modifications) from the external keyboard without having to use the terminal;
- auto-insertion function without the need for dedicated wiring;
- provision for operation in 11 languages.

1 = Italian	4 = German	7 = Russian	10 = Portuguese
2 = French	5 = Spanish	8 = Dutch	11 = Polish
3 = English	6 = Hebrew	9 = Turkish	

The Call Module comprises:

1) Kombi line front panel on 2 modules.
2) 2-line, 16-character back-lit alphanumeric display.
3) Yellow back-lit name selection keys.
4) Numeric keyboard with green back-lit keys complete with yellow back-lit function keys: ‘Cancel’, ‘Key’ and ‘Call’.
5) Extractable terminal strips for system connections (MP1, MP2, MS).
6) Connector for additional alphabetic keyboard (Ref. 1038/72).
7) Label with indication of the serial number (S/N) of the device.
8) Connector for programming using the Ref. 1038/56 Programming Terminal.
9) Adjustment of call module loudspeaker sound level.
10) Programming button to be used only in the case in which the password is not known.
11) Display Contrast Adjustment
12) Extractable terminal strips for local auxiliary services (MA) and video signal (MV).

DESCRIPTION OF THE TERMINALS

MP1 - Main terminal strip

+V	Power supply positive (+24V)
0V	Power supply and data line ground
D	Data line
FA1	Voice circuit 1 to conductor
FB1	Voice circuit 1 return conductor

MP2 - Main terminal strip

FA2	Voice circuit 2 to conductor
FB2	Voice circuit 2 return conductor
+F	Voice circuit power supply positive (+33V)
0F	Voice circuit ground

MS - Secondary terminal strip

+V	Power supply positive (+24V)
0V	Power supply and data line ground.
D	Data line
FA	Voice circuit to conductor
FB	Voice circuit return conductor

MA - Auxiliary terminal strip

SE-	Electric lock driving output - negative
SE+	Electric lock driving output - positive
0V	Keys/contacts/buttons common
T2	Input Key 2 for dedicated call
T1	Input Key 1 for dedicated call
SP	Door sensor input
H	Lock release code inhibition contact input
P	Postman key contact input
PH	Main entrance locking button input

MV - Video terminal strip

+V	Ref. 1038/68 video relay box power supply
SC	Ref. 1038/68 video relay drive output - riser
SL	Ref. 1038/68 video relay drive output - local
S12	Ref. 1038/68 video relay drive output - channels 1 and 2
0V	Ref. 1038/68 video relay box ground
S1	Ref. 1032/9 video relay drive output for channel 1
S2	Ref. 1032/9 video relay drive output for channel 2
0V	Ref. 1032/9 relay devices ground

TECHNICAL DATA

Power take-off in unitary loads: **15 LU**

Logic circuits
Logic p.s. voltage (+V/0V): **15 ÷ 25.2 Vdc**
Maximum current draw: **400 mA**

Voice circuits
Voice circuit p.s. voltage (+F/0F): **30 ÷ 36 Vdc**

Operating temperature: **-10 ÷ +50 °C**

FUNCTIONING

CALL FOR NAME SELECTION

In normal functioning, the repertory displays the message inviting the user to select the name to be called:

Select NAME
with ↑ or↓

Using the two scroll keys (3) it is possible to select the name to be called. At this point, simply press the Call key to send a call to the name selected. The following message is displayed:

CALL
MADE

NOTE: *if the user simply presses the Call key when invited to select the name, a call will be forwarded to the main entrance switchboard.*

Three confirmation beeps are emitted to indicate forwarding of the call. The buzzer of the indoor set called is activated for the time programmed (from 1 to 5 seconds) with a continuous tone (Main Call Module) or intermittent tone (Secondary Call Module).
The name selected is then redisplayed and remains visible for approximately 30 seconds during which the buzzer of the indoor set can be activated again simply pressing the Call key again.
When the indoor set replies, the following prompt is displayed:

PLEASE
SPEAK

During the conversation, any lock release command will be highlighted both audibly (3 beeps) and visibly with the following caption for 3 seconds:

DOOR
OPEN

At the end of the conversation, (or if no reply is received after approx. 30 seconds), the name selection message is redisplayed automatically accompanied by 3 beeps.

CODE FOR CALL COMPOSITION

The code entered on the keyboard of the Call Module (and optionally of the 1038/72 Additional Alphabetic Keyboard) is shown on the display. Pressing of each key is echoed by an audible signal:

CALL TO:
23

When the 'Call'' key is pressed, the call is forwarded to the extension with the code entered. The buzzer of the indoor set called is activated for the time programmed (from 1 to 5 seconds) with a continuous tone (Main Call Module) or intermittent tone (Secondary Call Module). Three beeps confirm that the call has been forwarded. Subsequent pressing of the Call key extends the buzzer activation time.
When the 'X' cancellation key is pressed (in the case of an error during entry of the code), the number on the display is cleared.
During the call, any lock release command will be indicated both audibly (3 beeps) and visibly with the following caption for 3 seconds:

DOOR
OPEN

At the end of the conversation (or if no reply is received after approx. 30 seconds) the name selection message is redisplayed automatically accompanied by 3 beeps.

DIRECT CALLS

Two particular users can be called pressing the matching keys of the 825/202 Module if present. Any 1038/40 Main Entrance Switchboard can be called simply pressing the 'Call' key (without entering any code and without selecting a name) or alternatively one of the two 825/202 Module keys (if present and suitably programmed).

ADDITIONAL CODES AND FUNCTIONS

The Call Module with Repertory is able to manage three separate groups of codes:

- **call codes (1-JJJJ)**
  Identify the house phone or video house phone indoor set called; during entry, codes consisting of less than four digits/letters must NEVER be preceded by zeroes (for example, enter "12A" and not "012A"). The call codes must always be terminated pressing the 'Call' key which activates forwarding of the code.

- **lock release codes (numeric ONLY:1-99999999)**
  Permit direct opening of the door by residents or by authorized persons; these codes must always be preceded and followed by pressing of the 'Key' key. Initial pressing of the 'Key' key prevents display of the lock release code in which the digits are replaced with asterisks:

  LOCK RELEASE CODE
  ****

  The lock release codes can be inhibited in pre-established time bands using an external timed switch that operates on the 'H' and '0V' terminals.

- **special codes (1-JJJ)**
  Can be used to activate/deactivate auxiliary services such as the stair lights, garden lights etc. Must always be preceded by a '0' (which prevents display of the codes) and followed by pressing of the 'Call' key:

SPECIAL CODE:
0***

These codes also make it possible to check the status of an input showing this on the display with the 'On' or 'OFF' caption; for example:

TERMINAL STATUS:
ON

For further information refer to the Ref. 1038/80 Special Decoding box User Manual.

NOTE: *In the case of an error during entry of any code, press the 'X' cancel key: the code shown on the display will be cleared.*

PROGRAMMING OF DECODING BOXES

The 1038/12 Call Module with Repertory can be used by the installation technician to program the decoding devices. For a description of the parameters and programming methods, refer to the decoding boxes User Manual.
In any case, if a parameter is programmed successfully, the display of the module will show:

Programming
OK

Otherwise, the following message is displayed:

Programming
KO

PROGRAMMING

PROGRAMMING METHODS

The Call Module with Repertory can be programmed in three different ways (in any case only when powered):

1) Programming using the Ref. 1038/56 Programming Terminal. This programming method is recommended as the display of the terminal facilitates the operations involved. The terminal may be connected:
   - locally on the programming connector (8) to the rear of the Call Module to be programmed.
   - on any other Call Module or Main Entrance Switchboard included in the system.
   - on any Passive Plug (Ref. 1038/90) connected in the system.

2) Locally via keyboard without having to open the frame of the Module. In this case, the configuration access password must be known.

3) Locally via keyboard opening first of all the frame of the Call Module to press the rear programming button (10).

PARAMETERS

The following parameters must be programmed:

A) The operating language
One of the listed languages can be selected in three consecutive screen forms.

1 = Italian	4 = German	7 = Russian	10 = Portuguese
2 = French	5 = Spanish	8 = Dutch	11 = Polish
3 = English	6 = Hebrew	9 = Turkish	

B) Description of the installation site
This is a 15-character string that must be used to assign the Call Module a mnemonic name: e.g. 'Entrance V. Roma', 'Corso Venezia', 'Stair A', 'Stair B'. In actual fact, it is possible to insert up to 30 characters but, in the fast search phase, only the first 15 will be shown. It is advisable therefore to restrict the name to 15 characters and to use the remaining characters for any additional information.

C) 11 parameters to be configured

1) Type of Call station
It is possible to select between a Main Call station from which calls can be made to all indoor sets or to the main entrance switchboard and a Secondary call station from which calls can be made only to the indoor sets of the specific riser.

2) Call station code
Each call station, whether Main or Secondary, is identified by a code. The codes that can be assigned to a call station depend however on whether this is Main or Secondary.
- If Main, the code will be between '1' and 'JJJ';
- If Secondary, the code will be between '1' and 'JJ' and will indicate the riser to which it belongs.

3) Busy time
The busy time defines the minimum duration of a call (including the time that passes between forwarding of the call and reply by the user). To guarantee this minimum duration, the system may – in the case of several concurrent calls - set one or more call stations to 'Busy' status which is shown on the display with the following message:

LINES BUSY
Please wait

When a Call Module has been set to Busy status, it cannot be used to send calls (although it can be used to enter lock release codes).
The busy time may be 10, 20, 30 or 40 seconds.

4) Electric lock management
Opening of the electric lock from an indoor set may be 'Free' (FREE) or 'With Secrecy' ('SEC'): In the first case, the door can be opened at any time; in the second case, it can be opened only during the conversation.
The criteria according to which the various electric locks are managed is important for correct functioning of the system.

ALWAYS COMPLY SCRUPULOUSLY WITH THE INSTRUCTIONS GIVEN BELOW BECAUSE ONLY THE CONFIGURATIONS DESCRIBED ARE PERMITTED.

- In installations with a single main call station and no secondary call station, the call station can be configured either with FREE LOCK RELEASE OR LOCK RELEASE WITH SECRECY.
- In systems with several main call stations (in automatic switching), all the call modules must be programmed with LOCK RELEASE WITH SECRECY.
- In systems with at least one secondary call station, the main call station(s) must be programmed with LOCK RELEASE WITH SECRECY.
  The secondary call station(s) can be programmed as required with FREE LOCK RELEASE OR LOCK RELEASE WITH SECRECY.
  In the first case, after a call from the main station, activation of the lock release key on the indoor set called will cause opening of the lock connected to the main call station and of the lock connected to the secondary station on which that indoor set depends.
  In the second case, following a call from the main station, activation of the lock release key on the indoor set called will cause opening of the lock connected to the main calling station only; a second call must then be made from the secondary station in order to open the lock connected to this.

5) **Door open time**
Indicates the time (in seconds) of duration of the electric lock maintenance current. WARNING: when locks that do not require latching current are used, ALWAYS set the lock release time to zero.
In the case of low absorption locks ONLY, the door open time can be set between 1 and 30 seconds.

6) **Duration of call ring**
Indicates the duration of the call ring on the indoor set. It is advisable to program the same value on all call stations. Permissible values (in seconds) range from 1 to 5.

7) **Number of voice lines**
The number of voice lines (including Main and Secondary) in the system must be specified.
Settable values are '1' and '2'.

8) **Buzzer Sound Level**
The intensity of the acoustic signals (key pressed, call forwarded, end of conversation beeps, etc.) can be adjusted to 3 possible levels: Minimum (Min), Medium (Med), Maximum (Max).

9) **Code associated to Key T1**
In the case of combination with a Ref. 825/201 or /202 module, the code associated to pressing of the first key must be specified.
If this key is to send a call to a specific Main Entrance Switchboard - both during the day and night but not when off - program the indoor set code of the Main Entrance Switchboard.
If the key is to send a call to any switchboard present that is in 'day A' condition, program '0000'.
Programmable codes are between '0000' and 'JJJJ'.

10) **Code associated to Key T2**
This is the code associated to the second key of any Ref. 825/202 module.
Programmable codes range from '0000' to 'JJJJ'.

11) **Saving of the Configuration Access Password and (automatically) of the lock release code programming password.**
The password must be numeric ONLY and must consists of 4 digits.
The password programmed in this way can then be used to access module configuration without having to open the Kombi frame.
Programming of the configuration access password automatically enables a second password that can be used to program name and lock release codes. This second password is derived from the first with an increment of 1. If, for example, '1234' has been programmed, the name and lock release code programming password will be '1235'.
The installation technician can therefore reveal to others (system administrator, porter etc.) ONLY the name and lock release code programming password avoiding any risk of access also to configuration parameters.
The values that can be programmed range from 0001 to 9998.

PROGRAMMING USING THE Ref. 1038/56 TERMINAL

Programming using the terminal must be carried out with the system on.
- Switch on the terminal holding down the 'ON' key for at least 3 seconds.
- Insert the programming cable in the specific outlet (8) or - alternatively - on another call Module, Main Entrance Switchboard or Passive Plug. The terminal will be connected automatically to the data line and the following message will be shown on the display for 3 seconds:

```
Programming
```

and then:

```
Find:
<Serial Number>
<Type>
<Acquisition>
```

- Select the <Serial Number> option.
  The following message is displayed:

```
Serial Number:
000000
```

Enter the serial number of the Call Module (given on the rear label (7) at the S/N item), and press ↵ key. The following message is displayed:

```
REP    SN:uvwxyz
- - - - - - - - - - - - - - -
Road . . . . . . . . . . . . .
```

At this point, the terminal is connected logically with the Call Module with Repertory (REP) with the selected serial number ('uvwxyz'). To indicate that the module is in Maintenance status, the display of the module will show:

```
MAINTENANCE
Please wait
```

NOTE: *the module permits management of the electric lock also in 'Maintenance' status, both following entry of a lock release code and activation of the main entrance button or of the postman key contact.*

- At this point, the following can be programmed: the description of the installation site, the 11 configuration parameters and the operating language divided into four pages:

(Page 1: Device recognized (REP) and its Serial Number, both non-modifiable; Description of the installation site)

```
REP    SN:uvwxyz
- - - - - - - - - - - - - - -
Road . . . . . . . . . . . . .
```

(Page 2: Type, Code, Busy, Lock Management)

```
Type: P  Cod:001
- - - - - - - - - - - - - - - -
Busy: 10 s
Lock Rel.: S-00 s
```

(Page 3: Call time, number of lines, Buzzer level)

Call:03 s
Lines: 1
Buzzer: 2

(Page 4: T1 and T2 key code assignment and Password)

Key 1:0000
Key2: 2:0000
Password: 9998
Language: English

- Program all the parameters using the alphanumeric keys, the ← and → keys to move, the ↵ key to confirm, the 'sp' key to switch between the pre-established options.
- Press the → (or ←) key several times to move to the following page:

<Names>
<Lock release>
<Program>
<Cancel><Exit>

- Position the cursor on 'Program' and press ↵. The terminal writes the data set in the memory of the Module and displays the result of the write operation.
- Move to the page with the <Exit> option, position the cursor on this and press ↵. At this point (and ONLY at this point), the Call Module will exit Maintenance status and return to normal operation.
- Disconnect the programming cable and switch off the terminal pressing the 'OFF' key for at least 3 seconds or if other call modules connected to the system are to be programmed, repeat the steps described above.

LOCAL PROGRAMMING VIA KEYBOARD

It is possible to access programming in 2 ways:

a) If the configuration access password is known (the password is factory set to '9998 '), enter '00' followed by the 4-digit password and the 'Call' key. If the password is incorrect, the following message is displayed:

INCORRECT
PASSWORD

After the third unsuccessful attempt, entry of the password is blocked for a period of time that depends on the number of unsuccessful attempts:

Nr. of unsuccessful attempts	Delay before another password can be entered
1	-
2	-
3	-
4	1 minute
5	2 minutes
6	3 minutes
•	•
•	•
255	252 minutes (over 4 hours)

b) If the password is not known, open the Kombi frame and press the rear red button (10).

After inserting the correct password - or after pressing the rear red button (10) - the following message is displayed for a few seconds:

v1.0B ה 23/03/99
N.S.uvwxyz

The first indication refers to the SOFTWARE version (in this case 1.0) and to the maximum number of programmable lock release codes: 240 (letter 'B' is displayed). These are followed by the date of the version and the serial number of the device (S/N) ('uvwxyz') coinciding with the serial number indicated on the rear label (this information makes it possible to check the serial number WITHOUT opening the Kombi frame).
The main menu is then displayed:

<LANGUAGE><CONFIG>
<ID><TEST><ESC>

a) Using the arrow keys, move the cursor to <LANGUAGE> and press the "bell" key to access the screen form used to select operating language. The first screen form is as follows:

<ITA> <FRA> <ENG>
<DEU> <ESP> <עבר>

Move the cursor to language selected and press the 'Call' key.

b) To program the installation site description move the cursor to <ID> and press the 'Call' key The following is displayed:

<Esc><Del><End>A

Use the ↑ and ↓ keys to scroll the characters that can be entered. Press the 'Call' key to enter the character selected in the upper line of the display. Although up to 30 characters can be entered (starting from the time the 16th character is entered, the top line scrolls progressively to the left), it is advisable to restrict insertion to 15 because only 15 will be displayed in the search from Terminal.

Once entry has been completed, position the cursor in the reduced <Esc><Del><End> menu. To do this, hold down the ↓ key until the cursor is positioned on the 'E' of <Esc>. To confirm insertion of the name, select the <End> item using the ↑ key and press the Call key.

c) Moving the cursor to <CONFIG> and pressing the 'Call' key, programming of the 11 configuration parameters distributed in subsequent screen pages is accessed.
In all the screen pages, the programming method is identical:

MODE TYPE:
<MAIN> <SECOND>

MODULE:CODE JJJ
JJJ

BUSY TIME:10s
<10><20><30><40>

```
LOCK RELEASE TYPES:
<FREE>  <SEC>
```

```
DOOR OPEN T. 0s
<-> <+> <OK>
```

```
CALL T.:3s
<1><2><3><4><5>
```

```
VOICE LINES:1
<1> <2>
```

```
BUZZER MED.LEV
<MIN><MED><MAX>
```

```
KEY 1:0000
0000
```

```
KEY 2:0000
0000
```

```
PASSWORD:  9998
9998
```

- using the arrows, move the cursor to the option selected and then press the ‘Call’ key to confirm and move to the next screen page.
- In screen pages in which a code must be inserted, use the numeric keys (and alphabetic keys if the Ref. 1038/72 additional alphabetic keyboard is used). To correct any errors and restore the all data saved press the ‘X’ key.

Once programming has been completed the main menu is redisplayed:

```
<LANGUAGE><CONFIG>
<ID><TEST><ESC>
```

To restore normal functioning, select <ESC> and confirm with the ‘Call’ key.

NOTE: *to interrupt programming at any time and return directly to normal functioning simply press the ‘X’ key for more than 3 seconds. In this case the data entered so far will remain however valid.*

ENTRY OF THE LOCK RELEASE CODES

The Call Module makes it possible to insert up to 240 lock release codes that are completely independent of the names, for general use. These codes must be numeric only and each consist of a number of digits that can be selected as required (between 1 and 8). Therefore the permitted range is 1 to 99999999.

METHODS OF INSERTION

The lock release codes can be inserted:

1) Using the Ref. 1038/56 Programming Terminal connected locally or at any other point of the installation.
2) Locally from keyboard. In this case, the password for programming of the names and lock release codes must be known (this is DIFFERENT from the configuration access password).

INSERTION USING THE 1038/56 TERMINAL

After establishing a logical connection with the call Module concerned (see description in ‘PROGRAMMING WITH THE 1038/56 TERMINAL), move to the following page:

```
<Names>
<Lock release>
<Program>
<Cancel><Exit>
```

- Select <Lock release> and press ↵.
  The first 3 lock release codes will be displayed:

```
Lockrel001:00000000
Lockrel002:00000000
Lockrel003:00000000
<P><S><OK><ESC>
```

- Enter the code(s) required and then, using the ← and → keys move to the <OK> command and press ↵.
  WARNING: THE 3 CODES ARE EFFECTIVELY SAVED IN THE CALL MODULE ONLY FOLLOWING CONFIRMATION WITH THE <OK> COMMAND. Saving is confirmed visibly.
- To access the three subsequent codes select the <S> command and press ↵. Alternatively, to access the three previous codes select <P> and press ↵ .
- Once the codes have been programmed, select <ESC> and press ↵ and then the ← key to move to the previous page, select <Exit> and press ↵.
- Disconnect the programming cable and switch off the terminal pressing the ‘OFF’ key for at least 3 seconds or if the same lock release codes have to be programmed on another call module connected in the system repeat the steps described above.

NOTE: *to delete a lock release code, reprogram this to ‘00000000’.*

ENTRY VIA KEYBOARD

- Enter ‘00’ followed by the 4-digit password (for programming of the names and lock release codes) and by the ‘Call’ key. If the password is incorrect, the following message is displayed:

```
INCORRECT
PASSWORD
```

After the third unsuccessful attempt, entry of the password is blocked for a period of time that depends on the number of unsuccessful attempts:

Nr. of unsuccessful attempts	Delay before another password can be entered
1	-
2	-
3	-
4	1 minute
5	2 minutes
6	3 minutes
•	•
•	•
255	252 minutes (over 4 hours)

Once the password has been entered correctly the display will show:

```
<Names>
<Lock release><Esc>
```

- Select <Lock release> and press 'Call'. The first page with the first two lock release codes will be displayed:

```
Lockrel001:00000000
Lockrel002:00000000
```

- Enter the lock release code and then confirm with the 'Call' key.
- Use the Arrows to check the codes already inserted and to move to the new codes.
- To exit the code entry phase and return to normal functioning press the 'X' key for at least 3 seconds.

NOTE 1: *instead of scrolling all the codes with the Arrow keys, it is possible to find the first free space holding down the 'Call' key for at least 3 seconds.*

NOTE 2: *to delete a lock release code, reprogram this to '00000000'.*

COMPLETE ERASURE

In some cases, it may be useful to delete all the lock release codes inserted (for example to reinstall the same device in another building). Complete erasure of the lock release codes is possible only using the keyboard:

- Enter '00' followed by the 4-digit password for access to the configuration (NOT that for lock release code management). The main menu is displayed:

```
<LANGUAGE><CONFIG>
<ID><TEST><ESC>
```

- On the keyboard press the 'Key' key and '5' at the same time. The display will show:

```
Erase ALL?
<Y>  <N>
```

- Answering 'YES', all the Lock Release Codes and all the Names (see below) stored in the device will be deleted. Answering 'No', another two prompts will be displayed for confirmation of ONLY the Names or ONLY the Lock Release Codes:

```
Erase names?
<Y>  <N>
```

```
Erase lock release?
<Y>  <N>
```

- Answering 'No' to the first prompt and 'Yes to the second, ONLY the Lock release Codes will be deleted.

NAME MANAGEMENT

It is possible to enter up to 740 names.
Each name includes the following information:
- name of the user (maximum 32 alphanumeric characters distributed on two 16-character lines);
- user code, alphanumeric (between '1' and 'JJJJ');
- lock release code, numeric only (between '1' and '99999999').

It is possible to proceed in such a way that several names (different from each other) correspond to the same call (in the case of several people living in the same apartment.

If the call code is to be displayed beside the name, simply save the call code also in the 32 characters dedicated to user name.

MANAGEMENT METHODS

Names can be managed:
1) Using a Personal Computer and the Ref. 1038/56 Programming terminal.
2) Using the Ref. 1038/56 Programming Terminal, connected locally or at any other point of the installation, mainly for modifications, cancellations and short entries
3) Locally, from keyboard, mainly for modifications, cancellations and short entries. In this case, the password for programming of the names and lock release codes must be known (this is DIFFERENT from the configuration access password).

MANAGEMENT USING PERSONAL COMPUTER AND 1038/56 TERMINAL

The best way to manage the names is to use the DVOICE Personal Computer programs specifically designed to simplify insertion and maintenance of the names of one or more sites. The DVOICE program can be downloaded free of charge from the Urmet Domus Internet site (http://www.urmetdomus.com).

The installation technician (or building administrator) may therefore proceed:
- to save the names of a site on his own PC;
- transfer the database of names from the PC to the 1038/56 Programming Terminal;
- inject the database of names in one or more Call Modules of the site (connecting the terminal at any point of the site).

The various operations are described in detail below.

Saving of the Database on the PC

Using the DVOICE program, create a new site on your PC and save the names of the residents together with any other relative information (such as for example the lock release codes). For further information, refer to the DVOICE program.

Transfer of the Database from PC to the 1038/56 Terminal

- Connect the programming Terminal to the selected serial port of the PC using the specific cable provided.
- set the DVOICE program to download the Database of the site on the Terminal.
- Switch on the terminal. The following message is displayed:

```
To program
connect cable
<Configur.>
<Database> <PC>
```

- Select <PC> and press ↵. The following message is displayed:

```
<PC-TP>
<TP-PC>
<Exit>
```

- Select the <PC-TP> item, press ↵ and answer YES to the subsequent confirmation prompt: transfer of the Database from PC to Terminal will start.
- On completion of transfer, return to the main page, switch off the terminal and disconnect the cable from the PC.

Checking and Modification of the Database

Once the names Database has been loaded on the terminal, it can be examined and modified. To do this, access the <Database> item from the main page and then select one of the possible options:

```
<Display>
<Insert>
<Modify>
<Cancel><Exit>
```

Transfer of the Database from the 1038/56 terminal to one or more 1038/12 Call Modules

- After establishing the logical connection with the Call Module concerned (see description in the 'PROGRAMMING USING THE 1038/56 TERMINAL paragraph'), go to the following page:

```
<Names>
<Lock release>
<Program>
<Cancel><Exit>
```

- Select <Names> and press ↵. The name Management menu is displayed:

```
<Insert>
<Modify>
<Cancel><Exit>
<REP-TP><TP-REP>
```

- Select <TP-REP>, press ↵ and answer YES to the subsequent confirmation prompt: transfer of the Database from the Terminal to the Module selected is started.
- Once transfer has been completed disconnect the cable and switch off the terminal pressing the 'OFF' key for at least 3 seconds, or if the same database is to be programmed on another call module in the system repeat the steps described above.

NOTE: *in the case of a database with many names, transfer may take a number of minutes. A horizontal square bar will indicate state of completion.*

Transfer of a names Database from one Call Module to another (or to a PC)

To 'copy' the names from one call Module to another, use the Terminal. Establish a logical connection with the first Module (that from which the names are to be copied) and select first of all <Names> and then <REP-TP>: the names database will be copied on the terminal. At this point, it can be downloaded on another call module or, changing the cable of the Terminal, on PC.

MANAGEMENT USING THE 1038/56 TERMINAL

After establishing a logical connection with the Call Module concerned (see description in PROGRAMMING WITH THE 1038/56' TERMINAL), move to the page:

```
<Names>
<Lock release>
<Program>
<Cancel><Exit>
```

Select <Names> and press ↵. The name Management menu is displayed:

```
<Insert>
<Modify>
<Cancel><Exit>
<REP-TP><TP-REP>
```

Insertion of a name

Select <Insert>. The following message is displayed:

```
_

Code:0000
Lock rel.:00000000
```

Enter the Name, on a maximum of 2 lines of 16 characters each for a total of 32 characters and press ↵. Enter the call code (between '1' and 'JJJJ') and the lock release code associated to the name (numeric only, between 1 and 99999999). When the specific prompt is displayed, confirm.
Continue in this way inserting all the names. At this point, press the <Esc> key to return to the Name Management menu.

Cancel/modify a name

Selecting <Cancel> or <Modify> from the name Management menu, the following prompt is displayed:

```
Select the
name with the
← and → keys
```

Scroll the names until that to be deleted/modified is shown.

WARNING: during scrolling, only the first 16 characters of each name are displayed. When the name concerned has been found, stop without pressing any key; after approx. 3 seconds, the remaining 16 characters of the name and the other parameters associated with these will be displayed.
To delete, press ↵ and confirm. To modify, make the changes required then press ↵ and confirm.

NOTE: *When a name is deleted, any associated lock release code is automatically deleted together with the name.*

MANAGEMENT VIA KEYBOARD

This type of programming can be used as an alternative method to that described above only for minor operations such as for example insertion, modification or deletion of a single name.
Enter '00' followed by the 4-digit password (for programming of the names and lock release code) and by the 'Call' key. If the password is incorrect, an error message will be output (for further details see the paragraph on insertion of lock release codes using the keyboard). Once the correct password has been inserted, the display will show:

```
<Names>
<Lock release><Esc>
```

Select <Names> and press 'Call'. The Name Management menu will be displayed from which to access all the functions:

```
<ADD> <CAN>
<MODIFY> <ESC>
```

Insertion of a name

Selecting <ADD>, the following is displayed:

```
<Esc><Del><End>A
```

Use the ↑ and ↓ keys to scroll the characters that can be entered. Press the 'Call' key to enter the character selected in the upper line of the display; starting from the 16th character of the name, the upper line will be gradually shifted to the left. It is possible to insert up to 32 characters.

Once entry has been completed, position the cursor in the reduced <Esc><Del><End> menu. To do this, hold down the ↓ key until the cursor is positioned on the 'E' of <Esc>. To confirm insertion of the name, select the <End> item using the ↑ key and press the Call key.
Continue as described above to insert the call code (between '1' and 'JJJJ') and the lock release code associated to the name (numeric only, between 1 and 99999999):

```
Code:
<Esc><Del><End>0
```

```
Lock rel:00000000
<Esc><Del><End>
```

Any errors during entry can be corrected selecting the <Del> item, which deletes the last character inserted. Use <Esc> to abandon the operation without saving the data entered.

NOTE 1: *If the name inserted is already present in the memory, an error message is output.*
NOTE 2: *If the code inserted is present in the memory, a confirmation is requested:*

```
Code present
Confirm? <Y><N>
```

Cancel/modify a name

Selecting <DEL> or <MODIFY> from the name Management menu, the following is displayed:

```
FIND NAME
WITH ↑ OR ↓
```

Using the ↑ or ↓ keys, scroll the names present until that to be deleted or modified is reached. Press the 'Call' key and delete the name (after confirmation) or modify this (proceeding as described above for insertion).

NOTE 1: *If a name is deleted, any associated lock release code is automatically deleted together with the name.*

COMPLETE ERASURE

In some cases, it may be useful to delete all the lock release codes inserted (for example to reinstall the same device in another building). Complete erasure of the lock release codes is possible only using the keyboard.

From Terminal

- After establishing a logical connection with the call Module concerned (see description in 'PROGRAMMING WITH THE 1038/56 TERMINAL), move to the following page:

```
<Names>
<Lock release>
<Program>
<Cancel><Exit>
```

- Select <Names> and press ↵. The name Management menu is displayed:

```
<Insert>
<Modify>
<Cancel><Exit>
<REP-TP><TP-REP>
```

- Press ← key for 3 seconds. The following prompt is displayed:

```
Cancel
entire
repertory?
<No>   <Yes>
```

where 'entire' means however deletion of the Names ONLY (and not of Lock release Codes). Selecting 'YES' and confirming with the ↵ key all the Names will be deleted.

From keyboard

- Enter '00' followed by the 4-digit password for configuration access (NOT the name management password). The main menu is displayed:

<LANGUAGE><CONFIG>
<ID><TEST><ESC>

- On the keyboard, press the 'Key' and '5' keys at the same time. The display will show:

Erase ALL?
<Y> <N>

- Answering 'YES', all the Names and all the Lock Release Codes stored in the device will be deleted. Answering 'No', another two prompts will be displayed for confirmation of ONLY the Names or ONLY the Lock Release Codes:

Erase names?
<Y> <N>

Erase lock rel?
<Y> <N>

- Answering 'YES' to the first prompt, ONLY the Names will be deleted.

INSTALLATION

WARNING: for wiring and the maximum permissible distances, follow the instructions given in the 'Integrated Systems Technical Manual'.

The Call Module must be installed on Kombi frame (not provided).
The anti-theft screw provided must be used instead of the normal screw furnished with the Kombi frame in order to guarantee installation security.
When the Call Module is combined with the Ref. 1038/72 additional Alphabetic Keyboard, this must be positioned BELOW (or at the most to THE SIDE) of the 1038/12 Call Module.

For example of modular installation see the section headed "outdoor station on Kombi entrance panel – installation".

SOUND LEVEL ADJUSTMENT

The sound level towards the indoor set called is factory set and does not require adjustment.
The sound level towards the outside is factory set to a medium value. To modify this, use a screwdriver on adjustment (9).

DISPLAY CONTRAST ADJUSTMENT

Display contrast is factory set to an optimal level. It can however be modified using a screwdriver on the related adjustment (11).

ERROR CODES

Various types of error codes are put on the display.

ERRORS DURING NORMAL OPERATION

Call to a non-existent user:

ERROR
NON EXISTENT

Call from a secondary call module to a user of another riser:

RISER
ERROR

At least one key is jammed:

KEYBOARD
JAMMED

Door lock release code incorrect or disabled:

LOCK REL.
NON-EXIST

ERRORS DURING INSTALLATION/PROGRAMMING

No signal on data line (terminal 'D' not connected or signal missing):

DATA LINE
ERROR

Insertion of an incorrect Password:

PASSWORD
INCORRECT

Attempt to insert a name already present in the memory:

ERROR
NAME PRESENT

Attempt to insert a name with the memory full:

ERROR
MEMORY FULL

Attempt to modify or delete a name with the memory empty:

ERROR
MEMORY EMPTY

SELF TEST

Configuration memory not present:

ERROR
EPROM MISSING

Configuration memory fault:

ERROR
EPROM

Name memory fault:

ERROR
FLASH

TROUBLESHOOTING AND REPLACEMENT

DISPLAY

In the case of problems with the display, check first of all that contrast is correctly set, using the rear adjustment (11).
A further check can also be carried out accessing – by entering the configuration password or pressing the rear key – the main menu:

<LANG.><CONFIG>
<ID><TEST><ESC>

Select <TEST> and press the 'Call' key. Check that the control figure is displayed:

At this point, the matching character is displayed for each key pressed. Press the 'Call' key, to return to the previous menu and then select <ESC> to restore normal functioning.

ELECTRIC LOCK

In the case in which the electric lock fails to open, the cause can be quickly traced:
- if the module emits a beep and the electric lock does not open, the fault is in the section from the module to the electric lock or in the module drive circuitry.
- if the module not only fails to open the electric lock but does not even emit a beep, this means that the lock release command is not received from the module: the fault is located on the indoor set side.

REPLACEMENT PROCEDURE

In the case of a fault in the module, replace the entire module.
If many lock release codes have been programmed, it is possible to remove the integrated circuit on which the codes are stored and to re-insert this in the new module.

The name memory can be replaced in the same way.
- Cut off the power to the old 1038/12 Call Module;
- Remove the rear cover applying a light pressure on the side hooks;
- Remove the U3 and U4 integrated circuit;
- Remove the rear cover of the new module; replace the U3 integrated circuit paying particular attention to the direction of insertion (notch on the body of the component and on the socket); replace integrated circuit U4, taking care to orient it correctly on installation (chamfered corner of U4 towards U3).
- Re-place the rear cover;
- **WARNING**: after replacing the memory, the serial number of the new call Module automatically becomes that of the old Module: remember to modify the indications on the rear label (7) by hand.
- Power on the new Call Module.

ENTRANCE MODULE WITH ELECTRONIC DIRECTORY Ref. 1038/15

The Ref. 1038/15 call module differs from the Ref. 1038/12 only by number of languages supported. The Ref. 1038/15 has only 5 languages: Italian, French, English, German, Spanish.

OUTDOOR STATIONS ON KOMBI ENTRANCE PANELS

ENTER CODE AND PRESS TO DELETE ERRORS X

INSTALLATION

FLUSH MOUNTING VERSION

Entrance modules Ref. 1038/10-/12 or /15 can be used alone or in combination with door camera module Ref. 825/70 and/or the additional alphabetic keypad Ref. 1038/72.
Examples of modular installation using two-, three- or four-module chassis units and the associated flush mounting back boxes are shown on the following pages.
Modules with provision for speaker units should be used. Install modules in wall, positioning them flush with wall surface and at a height of approximately 1.55 ÷ 1.60 m from floor.

h = 1,55 ÷ 1,60 m

Important
To ensure that the entrance module display is clearly legible, the module should not be installed in positions where it could be illuminated from behind. In addition, it must under no circumstances face directly towards the sun, Road lamps or other sources of intense light.

The flush mounting back box must be installed level with the wall surface, and must not protrude. If the back box is set too far back in the wall, install the two screws in the holes provided on the bottom of the box and turn screws until their heads are flush with the wall surface. This will prevent the bottom end cap of the module chassis from being damaged during subsequent installation. See Figure 1.
After installing the flush mounting back box, secure the entrance module, tightening screws on bottom end cap (Figure 2) followed by screws on top end cap (Figure 3).

Fig. 1

45 mm 118 mm H

H= 204 mm for embedding box for 2 modules.
H= 294 mm for embedding box for 3 modules.
H= 384 mm for embedding box for 4 modules.

Fig. 2

Fig. 3

WALL SURFACE MOUNTING VERSION WITH HOODED HOUSING Ref. 825/52

Entrance module housing is supplied together with frame and module chassis.
Secure the hood to the wall using three screws and the associated wall plugs.
Conductors must be routed through the opening provided at the bottom of the housing and end cap.
Install the frame between the housing and the module chassis and tighten screws on bottom end cap.
Swing the module upwards and secure the top end cap to the housing.

INSTALLATION OF ACCESSORIES

FLUSH MOUNTING VERSION WITH PERIMETER FRAME Ref. 825/32

After installing the flush mounting back box in the wall, position the perimeter frame and secure by tightening screws on module chassis bottom end cap.

FLUSH MOUNTING VERSION WITH PROTECTIVE RAIN HOOD Ref. 825/42

After installing the flush mounting back box in the wall, position the protective rain hood and secure by tightening screws on module chassis bottom end cap.
To prevent distortion and compensate for the thickness of the rain hood, install the two special screws at the bottom of the flush mounting back box and turn screws until the chassis end cap protrudes approximately 2 mm from wall surface.
Tighten the screw retaining the chassis top end cap to the flush mounting back box to secure the rain hood.

EXAMPLES OF MODULAR INSTALLATION

Recommended entrance module installations are illustrated below.

1,55 - 1,60 m

Ref. 1038/10

Ref. 1038/10

Ref. 1038/72

Ref. 825/70

Ref. 1038/10

Ref. 1038/72

Ref. 825/22

Ref. 825/23

Ref. 825/24

Ref. 1038/10

Ref. 1038/72

Ref. 1038/10

Ref. 1038/72

Ref. 1038/10

Ref. 825/70

ADDITIONAL ALPHABETIC KEYPAD Ref. 1038/72

A B C
D E F
G H I
X J

The additional alphabetic keypad Ref. 1038/72 makes it possible to enter letters of the alphabet when using call codes and special codes. The keypad can only be used in combination with a Ref. 1038/10 or Ref. 1038/12-/15 entrance panel, to which it is connected by means of the cable supplied together with the unit.

The additional alphanumeric keypad must be placed BELOW (or if this is not possible, ALONGSIDE) entrance module 1038/10 or 1038/12-/15.

SPECIFICATIONS

Consumption in load units: **3 LU**

Logic circuits

Supply voltage: **15 to 25.2 V DC**

Service temperature range: **- 10 to 50 °C**

K-STEEL ENTRANCE MODULE WITH ELECTRONIC DIRECTORY Ref. 1038/16

Entrance module Ref. 1038/16 employs two-module K-Steel series mechanical componentry. To complete installation, the flush mounting back box must be purchased separately together with the associated module chassis, flush mounting frame and tamper-proof screw.

FEATURES

Entrance module with directory Ref. 1038/16 provides the following features:

- Doorphone or video doorphone calling (video calling only if combined with door camera unit Ref. 825/70).
- Automatic doorphone or video doorphone traffic management on the basis of the number of available voice lines (1 or 2).
- Name selection by means of scroll keys and 16-character two-line backlit display. Up to 740 different names can be entered in directory.
- Direct keypad selection of numeric or alphanumeric call codes (if combined with additional alphabetic keypad Ref. 1038/73). Up to 159,999 different call codes can be used.
- Provision for managing up to two direct call keys (if combined with module Ref. 825/201 or 825/202) for calling specific users or the guard door switchboard station.
- Up to 980 door lock release codes, divided into two categories: 240 name-independent codes for general purpose use, plus a further 740 codes associated with specific names.
- Up to 7999 codes for special services.
- Momentary trigger type door lock release (unrestricted or protected by privacy feature) with holding current timer control (1 to 30 seconds) of low current draw electric door locks.
- Audible and visual electric door lock actuation signals.
- Ringing duration programmable from 1 to 5 seconds.
- Distinctive ringing: continuous tone for main entrance modules, intermittent tone for secondary entrance modules.
- Audible 'call routed' and 'call over' signals.
- Audible service signals adjustable in intensity.
- Door-open sensor interface.
- Name programming by means of programming terminal Ref. 1038/56. For minor changes, programming procedure can be accessed directly from the entrance module keypad without using the terminal.
- Self-activation function, with no need for dedicated wiring.
- Provision for operation in 16 languages.

The entrance module consists of the following:

1) Two-module K-Steel series faceplate.
2) Two-line 16-character backlit alphanumeric display.
3) Yellow backlit name selection keys.
4) Numeric keypad with green backlit keys, complete with yellow backlit function keys: **X**, 🔑 and 🔔.
5) Removable terminal blocks for system connections (MP1, MP2, MS).
6) Connector for additional alphabetic keypad (Ref. 1038/73).
7) Label indicating device serial number (S/N).
8) Connector for programming terminal Ref.1038/56.
9) Entrance module speaker volume control
10) Programming pushbutton. Used only when password is not known.
11) Display contrast control
12) Removable terminal blocks for local auxiliary services (MA) and video signals (MV).

TERMINAL DESIGNATIONS

MP1 - Main Voice Terminal Block 1

+V	Power supply positive (+24V)
0V	Power supply and data line ground
D	Data line
FA1	Outward voice conductor 1
FB1	Return voice conductor 1

MP2 - Main Voice Terminal Block 2

FA2	Outward voice conductor 2
FB2	Return voice conductor 2
+F	Voice power supply positive (+33V)
0F	Voice ground
MS	Main Voice Terminal Block 2
+V	Power supply positive (+24V)
0V	Power supply and data line ground
D	Data line
FA	Outward voice conductor
FB	Return voice conductor

MS - Secondary terminal strip

+V	Power supply positive (+24V)
0V	Power supply and data line ground.
D	Data line
FA	Voice circuit to conductor
FB	Voice circuit return conductor

MA - Auxiliary Terminal Block

SE-	Electric lock drive output - negative
SE+	Electric lock drive output - positive
0V	Key/contact/pushbutton common
T2	Direct call key 2 input
T1	Direct call key 1 input
SP	Door sensor input
H	Door lock release code disabling contact input
P	Postal service door lock release contact input
PH	Lobby door lock release pushbutton input

MV - Video Terminal Block

+V	Power supply, Ref. 1038/68 video entrance panel relay
SC	Drive output, Ref. 1038/68 video entrance panel relay - riser cable
SL	Drive output, Ref. 1038/68 video entrance panel relay - local

S12	Drive output, Ref. 1038/68 video entrance panel relay - channels 1/2
0V	Ground, Ref. 1038/68 video entrance panel relay
S1	Drive output, Ref. 1032/9 video entrance panel relay- channel 1
S2	Drive output, Ref. 1032/9 video entrance panel relay- channel 2
0V	Ground, Ref. 1032/9 relays

SPECIFICATIONS

Consumption in load units:	**15 LU**
Logic circuits	
Logic circuit supply voltage (+V/0V):	**15 to 25.2 V DC**
Max current draw	**~400 mA**
Voice circuits	
Voice circuit supply voltage (+F/0F):	**30 to 36 V DC**
Service temperature range:	**- 10 to 50 °C**
Degree of protection:	**IP45.**

OPERATION

CALLS WITH NAME SELECTION

During normal operation, the display shows the following prompt:

Select NAME
with ↑ or ↓

The name to be called can be selected using the two scroll keys (3). The call can then be sent to the selected name simply by pressing the 🔔 button. The following message will appear:

ENTERED
CALL

NOTE: *If the 🔔 button is pressed without selecting a name while the display shows the selection prompt, a call will be sent to the door switchboard station.*

Three audible beeps will confirm that the call has been forwarded.
The ringer at the called apartment station will be activated for the programmed time (from 1 to 5 seconds), with a continuous ring tone (main entrance module) or an intermittent tone (secondary entrance module). The selected name will return to the display, where it will remain for approximately 30 seconds. Pressing the 🔔 button again during this period will activate the ringer at the apartment station a second time.
When the apartment station answers the call, the following prompt will appear on the display:

PLEASE
SPEAK

If the door lock is released during the call, the entrance module will emit three audible beeps and the following message will appear on the display for 3 seconds:

DOOR
OPEN

At the end of the conversation (or after approximately 30 seconds if the call was not answered), the entrance module will emit three audible beeps and the selection prompt will automatically return to the display.

CALLS WITH CODE ENTRY

The code entered on the entrance module keypad (and, optionally, on the additional alphabetic keypad 1038/73) is shown on the display. An acoustic signal is generated each time a key is depressed:

CALL TO:
23

When the 🔔 button is pressed, the call will be sent to the station whose code was entered. The ringer at the called apartment station will be activated for the programmed time (from 1 to 5 seconds), with a continuous ring tone (main entrance module) or an intermittent tone (secondary entrance module). Three audible beeps will confirm that the call has been forwarded. Pressing the call button again will extend the ringer activation time.
If an error is made when entering the code, pressing the delete button '**X**' will cancel the number shown on the display.
If the door lock is released during the call, the entrance module will emit three audible beeps and the following message will appear on the display for 3 seconds:

DOOR
OPEN

At the end of the conversation (or after approximately 30 seconds if the call was not answered), the entrance module will emit three audible beeps and the selection prompt will automatically return to the display.

DIRECT CALLS

Calls can be made to two designated users by pressing the direct call keys on module 825/202, where provided. In addition, the guard door switchboard station 1038/40 (where provided) can be called simply by pressing the 🔔 button without entering a code or selecting a name. Alternatively, if the system is equipped with module 825/202, one of the two direct call keys can be programmed for the switchboard station.

ADDITIONAL CODES AND FUNCTIONS

The entrance module with directory can manage three separate code sets:

- **Call codes (1- JJJJ)**
  These codes identify doorphone or video doorphone apartment stations. When entering codes, those consisting of fewer than four numbers or letters must NOT be preceded by zeros (e.g., enter "12A", rather than "012A"). After entering the call code, press the 🔔 button to send the call.

- **Door lock release codes (ONLY numeric codes: 1-99999999)**
  Door lock release codes enable residents or other persons to open the door directly. The 🔑 button must be pressed before and after entering a door lock release code. Pressing the 🔑 button before entering the door lock release code ensures that it does not appear on the display, which will show asterisks instead of the code digits:

  LOCK REL. CODE
  ****

  Door lock release codes can be disabled during certain selected time periods by means of a timer-controlled external switch operating across terminals 'H' and '0V'.

- **Special codes (1- JJJ)**
  Special codes can be used to activate and deactivate auxiliary services such as stair lights, outdoor lighting, etc. Special codes

must always be preceded by a '0' (which prevents the code from appearing on the display), and followed by pressing the 🔔 button:

SPECIAL CODE:
0***

Special codes are also used to view the status of an input, which will be shown on the display as 'On' or 'OFF':

TERMINAL STATE:
ON

For further information, see the instruction manual provided for special decoder Ref. 1038/80.

NOTE: *If an error is made when entering a code of any kind, press the delete button '**X**': this will clear the code from the display.*

DECODER PROGRAMMING

The installer can use entrance module with directory 1038/16 to program the decoders. Programming parameters and methods are described in the decoder instruction manual.
When a parameter has been successfully programmed, the module display will show:

Programming
OK

If programming is unsuccessful, the display will show:

Programming
KO

PROGRAMMING

PROGRAMMING METHODS

The entrance module with directory can be programmed in three different ways (programming is only possible when the module is supplied with power):

1) By means of programming terminal Ref. 1038/56. This is the recommended method, as the terminal's display simplifies programming operations. The terminal can be connected either:
   - Locally, to programming connector (8) located at the rear of the entrance module to be programmed.
   - To any other entrance module or guard door switchboard station in the system.
   - To any passive wiring block (Ref. 1038/90) connected to the system.
2) Locally by means of the keypad, without opening the entrance module chassis. This method can only be used if the configuration access password is known.
3) Locally by means of the keypad, after opening the entrance module chassis to gain access to the rear programming pushbutton (10).

PARAMETERS

The following parameters must be programmed:

A) Operating language
One of the languages listed in several consecutive screen pages can be selected.

B) Installation site
This is a 15-character string which must be used to assign an easily remembered name to the entrance module, e.g., 'Main Road Entrance', 'Riverside Drive, 'Stair A', 'Stair B', etc. In reality, up to 30 characters can be entered, but the terminal display will show only the first 15 in fast find mode. It is thus advisable to limit the entrance module name to 15 characters, and use the remaining characters for any additional information which may be necessary.

C) Eleven configuration parameters

1) **Type of entrance panel**
The module can be configured as a main entrance panel, i.e., one from which calls can be made to all apartment stations or to the guard door switchboard station, or as a secondary entrance panel, from which calls can be made only to the apartment stations on the module's own riser cable.

2) **Entrance panel code**
Whether configured as main or secondary, each entrance panel is identified by a code. However, the codes that can be assigned to an entrance panel will depend on the latter's type as follows.
   - Main entrance panels can be assigned codes from '1' to 'JJJ';
   - Secondary entrance panels can be assigned codes from '1' to 'JJ'. The code indicates the associated riser cable.

3) **Engaged time**
The programmed engaged time establishes the minimum duration of a call (including the time lapsing between the moment the call is sent from the entrance panel and the moment it is answered at the indoor station). To guarantee this minimum duration in situations where several calls are being made at the same time, the system can put one or more entrance panels in 'Busy' status. In such cases, the display will show:

LINES BUSY
Please wait

When an entrance module is in busy status, it cannot be used to make calls, though door lock release codes can still be entered.
Engaged time can be programmed as 10, 20, 30 or 40 seconds.

4) **Electric lock management**
Door lock release from apartment stations may be unrestricted (UNR) or protected by privacy feature (PPF): in the first case, the door lock can be released at any time, while in the second case it can be released only while a call is in progress.
The criteria selected for electric lock management is essential to correct system operation.

STRICTLY ADHERE TO THE INSTRUCTIONS BELOW: CONFIGURATIONS OTHER THAN THOSE DESCRIBED CANNOT BE USED.

- In installations with a single main entrance panel and no secondary entrance panels, the entrance panel may be configured either for UNRESTRICTED DOOR LOCK RELEASE or for DOOR LOCK RELEASE PROTECTED BY PRIVACY FEATURE.
- In installations with two or more main entrance panels with automatic switching between them, it is essential that all call modules be configured for DOOR LOCK RELEASE PROTECTED BY PRIVACY FEATURE.
- In installations with at least one secondary entrance panel, it is essential that the main entrance panel or panels be programmed for DOOR LOCK RELEASE PROTECTED BY PRIVACY FEATURE.
The secondary entrance panel(s) can be programmed either for UNRESTRICTED DOOR LOCK RELEASE or for DOOR LOCK RELEASE PROTECTED BY PRIVACY FEATURE.

In the first case, pressing the apartment station door lock release button in response to a call from a main entrance panel will release the lock connected to the main entrance panel from which the call was made, as well as the lock connected to the secondary entrance panel associated with the apartment station concerned.
In the second case, pressing the apartment station door lock release button in response to a call from a main entrance panel will release only the lock connected to the main entrance panel from which the call was made: a second call will have to be made from the secondary entrance panel before the lock connected to it can be released.

5) **Door lock release time**
The programmed door lock release time establishes the duration in seconds of the electric lock holding current.
NOTE: for electric strike locks, ALWAYS set door lock release time to 0.
ONLY for low current consumption locks, door lock release time may be set between 1 and 30.

6) **Ring duration**
Indicates the length of time that the apartment station doorphone will ring.
It is advisable to program all entrance panels for the same ring duration. Ring duration can be 1 to 5 seconds.

7) **Number of voice lines**
The number of voice lines between the system's main and secondary panels must be specified.
This parameter can be set to either '1' or '2'.

8) **Buzzer volume**
Sound intensity of the audible signals produced by the module (key pressed, call routed, call over, etc.) can be set to three levels: Minimum (1), Medium (2), and Maximum (3).

9) **Code associated with direct call key T1**
Where module Ref. 825/201 or /202 is installed, the code associated with the first direct call key must be specified.
If the key is to send calls to a specific guard door switchboard station – in both day service and night service modes, but not when the station is inactive - program the desired guard door switchboard station's code.
Conversely, if the key is to send calls to any of the system's guard door switchboard stations which are in 'day A' status, program '0000'.
Codes between '0000' and 'JJJJ' can be assigned.

10) **Code associated with direct call key T2**
This is the code assigned to the second direct call key on module Ref. 825/202 (where provided).
Codes between '0000' and 'JJJJ' can be assigned.

11) **Configuration access password and door lock release code programming password.**
ONLY four-digit numeric passwords can be used.
Once programmed, the password can be used to access the module configuration procedure without having to open the K-Steel chassis.
Programming the configuration access password automatically enables a second password which can be used to program door lock release codes. This second password will be the same as the first password plus 1. For example, if the programmed configuration password is '1234', the door lock release code programming password will thus be '1235'.
In this way, the installer can disclose ONLY the door lock release code programming password to the building manager, concierge, etc., thus ensuring that there is no risk of access to configuration parameters. Passwords between 0001 and 9998 can be programmed.

PROGRAMMING WITH TERMINAL 1038/56

Programming by means of the terminal must be performed with the system on.

- Turn on the terminal, holding down the 'ON' key for at least 3 seconds.
- Plug the programming cord into the associated socket (8) or, alternatively, into another entrance module, guard door switchboard station or passive wiring block. The terminal will automatically be connected to the data line, and the display will show the following message for 3 seconds:

```
Programming
```

This will be followed by:

```
Search for:
<Serial Number>
<Type>
<Acquisition>
```

- Select the option <Serial Number >. The display will show:

```
Serial number:
000000
```

Type in the entrance module serial number shown on the rear label (7) alongside the designation S/N and press ↵. The display will show:

```
DIR     SN: uvwxyz
------------------------------
Road........................
```

At this point, the terminal is logically connected to the entrance module with directory (DIR) which has the selected serial number ('uvwxyz'). To indicate that the entrance module is in 'Maintenance' status, the display will show:

```
MAINTENANCE
Please wait
```

NOTE: *In 'Maintenance' status, the entrance module will continue to control the electric lock when the lobby pushbutton or postal service door lock release contact is actuated.*

- The installation site, the 11 entrance module configuration parameters and the operation language can now be programmed. These parameters are shown on four screen pages:

(Page 1: Device detected (DIR) and Serial Number, neither of which can be changed; Installation site)

```
DIR     SN: uvwxyz
------------------------------
Road........................
```

(Page 2: Type, Code, Engaged Time, Lock Management)

```
Type: P  Code: 001
-----------------------------
Busy: 10 s
Lock rel.: S-00 s
```

(Page 3: Ring Duration, Number of Lines, Buzzer Volume)

```
Call: 03 s
Lines: 1
Buzzer: 2
```

(Page 4: Direct Call Key T1 and T2 codes, Password)

```
Button 1: 0000
Button 2: 0000
Password: 9998
Lang.: English
```

- Use the ← and → keys to move to the desired parameters, select options using the ‘sp’ key, program by means of the alphanumeric keys, and press ↵ to confirm.
- Press → (or ←) several times in succession to view the next page.

```
<Names>
<Lock Rel.>
<Program>
<Cancel><Exit>
```

- Move the cursor to ‘Program’ and press ↵. The terminal will write programmed data in the entrance module memory and display the outcome of the write operation.
- Go on to the page with the <Exit> option, move the cursor to the option and press ↵. At this point (and ONLY at this point), the entrance module will exit from the maintenance status and return to normal operation.
- Disconnect the programming cord and turn off the terminal by holding down the ‘OFF’ key for at least 3 seconds, or, if further entrance modules connected to the system are to be connected, repeat the steps described above.

LOCAL PROGRAMMING FROM KEYPAD

The programming sequence can be accessed in two ways:

a) If the configuration access password is known (all units are programmed at the factory with the password ‘9998’), enter ‘00’ followed by the 4-digit password and press the 🔔 button. If the password is incorrect, the display will show:

```
INCORRECT
PASSWORD
```

After the third unsuccessful attempt, password entry will be blocked for a period whose length will increase with the number of unsuccessful attempts as shown below:

Nr. of unsuccessful attempts	Delay before another password can be entered
1	-
2	-
3	-
4	1 minute
5	2 minutes
6	3 minutes
•	•
•	•
255	252 minutes (over 4 hours)

b) If the password is not known open the K-Steel chassis and press the red pushbutton (10) at rear.

After the correct password is entered – or after the red pushbutton (10) is pressed – the following information will appear on the display for a few seconds:

```
v1.0B ה 23/03/99
N.S.uvwxyz
```

The first line indicates the software release (1.0 in the example shown) and the maximum number of door lock release codes that can be programmed, which here is 240 as designated by the letter ‘B’). This is followed by the data of the release and the device’s serial number (‘uvwxyz’), which is the same as the number shown on the rear label alongside the designation S/N (this makes it possible to identify the serial number WITHOUT opening the K-Steel chassis).

The main menu will then appear:

```
<LANGUAGE><CONF>
<ID><TEST><ESC>
```

a) Using the arrow keys, move the cursor to <LANGUAGE> and press the 🔔 button to view the menu used to select the operation language:

```
<ITA> <FRA> <ENG>
<DEU> <ESP> <עבר>
```

Move the cursor to the desired language and press the 🔔 button.

b) To program the installation site, move the cursor to <ID> and press the 🔔 button.
The display will show:

```
<Esc><Del><End>A
```

Use the ↑ and ↓ keys to scroll through the characters that can be entered.
Press the 🔔 button to enter the desired character in the top line of the display. Though up to 30 characters can be entered (starting from the time the 16th character is entered, the top line will shift progressively towards the left), it is strongly recommended that only 15 be entered, as this is the number of characters that will be displayed during the search procedure.
After entering data, the cursor must be moved to the abbreviated menu: <Esc><Del><End>. To do so, hold down the ↓ key until the cursor is positioned over the ‘E’ in <Esc>. To confirm the name of the installation site, select <End> using the ↑ key and press the 🔔 button.

c) To program the 11 configuration parameters, move the cursor to <CONFIG> and press the 🔔 button. Programming is performed on sequential screen pages as follows.

```
MOD. TYPE:
<MAIN> <SECOND>
```

```
MODULE CODE:JJJ
JJJ
```

```
BUSY T.:10s
<10><20><30><40>
```

```
LOCK REL.TYPE:P
<FREE> <SEC>
```

```
LOCK REL.T.: 0s
<-> <+> <OK>
```

```
CALL T.:3s
<1><2><3><4><5>
```

```
VOICE LINES:1
<1> <2>
```

```
BUZZER LEV.:MED
<MIN><MED><MAX>
```

```
KEY 1:0000
0000
```

```
KEY 2:0000
0000
```

```
PASSWORD: 9998
9998
```

The programming procedure is the same in all screen pages:

- Using the arrow keys, move the cursor to the desired option. Then press the button to confirm the selections and go on to the next page.
- In the pages where a code must be entered, use the numeric keys (and the alphabetic keys, if the entrance module is provided with additional alphabetic keypad Ref. 1038/73). To correct errors and restore the former setting, press the '**X**' key.

The main menu will return to the display at the end of the programming procedure:

```
<LANGUAGE><CONF.>
<ID><TEST><ESC>
```

To return to normal entrance module operation, select <ESC> and confirm by pressing the button.

NOTE: *To exit from the programming procedure at any time and return directly to normal operation, simply hold down the '**X**' key for more than 3 seconds. All data entered up to this point will remain in memory.*

DOOR LOCK RELEASE CODE ENTRY

The entrance module can be programmed for maximum of 240 name-independent door lock release codes for general purpose use.
Door lock release codes must be numeric. Each code may consist of any desired number of digits between 1 and 8. The possible range is thus 1 to 99999999.

CODE ENTRY METHODS

Door lock release codes can be programmed in two different ways:

1) By means of programming terminal Ref. 1038/56 connected either locally or at any other point of the system.

2) Locally by means of the keypad. This method can only be used if the name and door lock release code programming password (which is DIFFERENT from the configuration access password) is known.

CODE ENTRY WITH TERMINAL 1038/56

After establishing a logic connection with the entrance module in question (see the description provided in the paragraph headed 'PROGRAMMING WITH TERMINAL 1038/56'), go to the page:

```
<Names>
<Lock Rel.>
<Program>
<Cancel><Exit>
```

- Select <Lock. Rel. Codes> and press ↵.

The first three door lock release codes will appear:

```
Lrl001:00000000
Lrl002:00000000
Lrl003:00000000
<P><N><OK><ESC>
```

- Enter the desired code(s), use the ← and → keys to move to the <OK> command, and press ↵.
  WARNING: THE THREE CODES WILL BE STORED IN ENTRANCE PANEL MEMORY ONLY AFTER THEY HAVE BEEN CONFIRMED BY MEANS OF THE <OK> COMMAND. A display message will appear when the codes have been stored.
- To access the next three codes, select <N> and press ↵. To go back to the three previous codes, select <B> and press ↵.
- After programming all codes, select <ESC> and press ↵. Then use the ← key to return to the previous page, select <Exit > and press ↵.
- Disconnect the programming cord and turn off the terminal by holding down the 'OFF' key for at least 3 seconds, or, if the same door lock release codes are to be programmed in another entrance module connected to the system, repeat the steps described above.

NOTE: *A door lock release code can only be deleted by reprogramming it to '00000000'.*

CODE ENTRY FROM KEYPAD

- Enter '00' followed by the 4-digit password and press the button. If the password is incorrect, the display will show:

```
INCORRECT
PASSWORD
```

After the third unsuccessful attempt, password entry will be blocked for a period whose length will increase with the number of unsuccessful attempts as shown below:

Nr. of unsuccessful attempts	Delay before another password can be entered
1	-
2	-
3	-
4	1 minute
5	2 minutes
6	3 minutes
•	•
•	•
255	252 minutes (over 4 hours)

After the correct password is entered, the display will show:

```
<Names>
<Lock Rel.><ESC>
```

- Select <Lock Rel.> and press the button. The first page showing the first two door lock release codes will appear:

```
Lrl001:00000000
Lrl002:00000000
```

- Enter the desired door lock release code and press the button to confirm.
- Use the arrow keys to check codes stored in memory and to move to new codes.
- To exit from the door lock release code entry procedure and return to normal entrance module operation, hold down the '**X**' key for at least 3 seconds.

NOTE 1: *As an alternative to scrolling through all codes with the arrow keys, hold down the button for at least 3 seconds to skip to the first free space.*
NOTE 2: *A door lock release code can only be deleted by reprogramming it to '00000000'.*

ERASING ALL CODES

In certain cases (as when the entrance module is to be moved to another building), it may be necessary to erase all door lock release codes from memory.
This can be only be done from the keypad. Proceed as follows:

- Enter '00' followed by the four-digit configuration access password (NOT the door lock release code programming password).
  The main menu will appear:

```
<LANGUAGE><CONF>
<ID><TEST><ESC>
```

- Press the button and key '5' on the keypad simultaneously. The display will show the following prompt:

```
ELIMINATE ALL?
<Y> <N>
```

- Answering 'Yes' will erase ALL door lock release codes and ALL names (see below) stored in the entrance module's memory. If 'No' is selected, two further prompts will appear to ask confirmation before erasing ONLY the names or ONLY the door lock release codes:

```
Erase names?
<Y> <N>
```

```
Erase lock rel?
<Y> <N>
```

Answering 'No' to the first prompt and 'Yes' to the second will cause ONLY the door lock release codes to be erased.

NAME MANAGEMENT

Up to 740 names can be entered in memory.
Each name includes the following information:

- User name (maximum of 32 alphanumeric characters on two 16-character lines).
- User code (alphanumeric, between '1' and 'JJJJ').
- Door lock release code (numeric only, between '1' and '99999999').

The same call code can be assigned to several different names (e.g., in cases where a single apartment is occupied by several residents.

The call code can be shown alongside the name in the directory simply by including it in the 32 characters used to indicate user name.

NAME MANAGEMENT METHODS

Names can be managed in three different ways:

1) By means of a personal computer and programming terminal Ref. 1038/56.
2) By means of programming terminal Ref. 1038/56 connected either locally or at any other point of the system. This method is chiefly used for changes, deletions and minor additions.
3) Locally by means of the keypad. This method is chiefly used for changes, deletions and minor additions. It can only be employed if the name and door lock release code programming password (which is DIFFERENT from the configuration access password) is known).

MANAGEMENT WITH PERSONAL COMPUTER AND TERMINAL 1038/56

The best way to manage names is to use the DVOICE personal computer program, which is specially designed to simply the operations involved in entering and managing names at one or more sites. The DVOICE program can be downloaded free of charge from the Urmet Domus Internet site at http://www.urmetdomus.com

With this program, the installer (or building manager) can:

- Store the names for a site on PC.
- Transfer the name database from the PC to programming terminal 1038/56.
- Inject the name database into one or more entrance modules at the site by connecting the programming terminal at any point of the system.

These operations are described in detail below.

Storing the database on PC

Using the DVOICE program, create a new site on your PC and store names of residents in it together with all other relevant information (e.g., door lock release codes). Further details are provided by the DVOICE program.

Transferring the database from PC to terminal 1038/56

- Connect the programming terminal to the PC serial port using the cord supplied with the terminal.
- Prepare the DVOICE program to download the database for the site on the terminal.
- Turn on the terminal. The following message will appear on the display:

```
To program
Connect cable
<Configuration>
<Database> <PC>
```

- Select <PC> and press ↵. The display will show:

```
<PC-PT>
<PT-PC>
<Exit>
```

- Select the option <PC-PT>, press ↵ and answer 'Yes' when the prompt asks you to confirm: database transfer from the PC to the terminal will begin.
- Once transfer has been completed, return to the main screen page, turn off the terminal and disconnect the programming cord from the PC.

Checking and editing the database

Once it has been loaded on the programming terminal, the name database can be examined and edited. To do so, access <Database> from the main screen page and then select one of the three possible options:

```
<Display>
<Insert>
<Modify>
<Delete><Esc>
```

Transferring the database from terminal 1038/56 to one or more entrance modules 1038/16

- After establishing a logic connection with the entrance module in question (see the description provided in the paragraph headed 'PROGRAMMING WITH TERMINAL 1038/56'), go to the page:

```
<Names>
<Lock Rel.>
<Program>
<Cancel><Exit>
```

- Select <Names> and press ↵. The name management menu will appear:

```
<Insert>
<Modify>
<Delete><Esc>
<REP-PT><PT-REP>
```

- Select <PT-REP>, press ↵ and answer 'Yes' when the prompt asks you to confirm: database transfer from the terminal to the selected entrance module will begin.
- Once transfer has been completed, disconnect the programming cord and turn off the terminal by holding down the 'OFF' key for at least 3 seconds, or, if the same database is to be programmed in another entrance module connected to the system, repeat the steps described above.

NOTE: *If the database contains a large number of names, transfer may take a few minutes. Transfer progress will be indicated by a horizontal bar.*

Transferring a name database from one entrance module to another (or to PC)

The names in one entrance module can be copied to another module using the programming terminal. Establish a logic connection with the first module (the one whose names are to be copied) and select <Names> followed by <REP-PT>: the name database will be copied onto the terminal. At this point, it can be downloaded onto another entrance module or, by changing the terminal's programming cord, onto PC.

NAME MANAGEMENT WITH TERMINAL 1038/56

After establishing a logic connection with the entrance module in question (see the description provided in the paragraph headed 'PROGRAMMING WITH TERMINAL 1038/56'), go to the page:

```
<Names>
<Lock Rel.>
<Program>
<Cancel><Exit>
```

Select <Names> and press ↵. The name management menu will appear:

```
<Enter>
<Edit>
<Delete><Exit>
<DIR-PT><PT-DIR>
```

Entering a name

Select <Enter>. The display will show:

```
_

Cod:0000
Door Rel.:00000000
```

Enter the name, which may consist of a maximum of 32 characters on two 16-character lines, and press ↵. Enter the call code (between '1' and 'JJJJ') and the numeric door lock release code (between 1 and 99999999) associated with the name. Answer 'Yes' when the prompt asks you whether to proceed with entry.
Continue as directed until all names have been entered.
Then press <Exit> to return to the name management menu.

Deleting/editing a name

When <Delete> or <Edit> is selected on the name management menu, the following prompt will appear on the display:

Select name with ← and → keys

Scroll through the names to find the entry to be deleted or edited.

WARNING: Only the first 16 characters of each name are displayed while scrolling. Once the desired name has been found, stop without pressing any keys: the remaining 16 characters in the name and the other parameters associated with it will appear after approximately 3 seconds. To delete the name, press ↵ and confirm. If the name is to be edited, make the necessary changes, press ↵ and confirm.

NOTE: *If a name is deleted, any door lock release code associated with the name will automatically be deleted together with it.*

MANAGEMENT FROM KEYPAD

This type of programming is an alternative to the method described above, and should be used only for minor operations such as entering, editing or deleting a single name.
Enter '00' followed by the 4-digit password and press the 🔔 button. If the password is incorrect, the display will show an error message (for further details, see the paragraph covering door lock release code entry from keypad). After the correct password is entered, the display will show:

<Names> <Lock Rel.><Esc>

Select <Names> and press the 🔔 button. The name management menu providing access to the following functions will appear:

<ADD> <CANC> <MODIFY> <ESC>

Entering a name

When <ADD> is selected, the display will show:

<Esc><Del><End>A

Use the ↑ and ↓ keys to scroll through the characters that can be entered.
Press the 🔔 button to enter the desired character in the top line of the display. Starting from the time the 16th character is entered, the top line will shift progressively towards the left. Names consisting of a maximum of 32 characters can thus be entered.
After entering data, the cursor must be moved to the abbreviated menu: <Esc><Del><End>. To do so, hold down the ↓ key until the cursor is positioned over the 'E' in <Esc>.
To confirm the entered name, select <End> using the ↑ key and press the 🔔 button.
Use the same procedure to enter the call code (between '1' and 'JJJJ') and the door lock release code associated with the name (lock code must be a number between 1 and 99999999):

Code: <Esc><Del><End>0

Lock RE:00000000 <Esc><Del><End>0

Errors can be corrected by selecting <Canc>, which deletes the character entered. To abandon the procedure without entering changes in memory, select <Esc>.

NOTE 1: *An error message will appear if a name is entered which is already in memory.*
NOTE 2: *If a code is entered which is already in memory, the user will be asked to confirm:*

Code present Confirm? <Y><N>

Deleting/editing a name

When <Canc> or <Modify> is selected on the name management menu, the following prompt will appear on the display:

FIND NAME WITH ↑ OR ↓

Using the ↑ or ↓ keys, scroll the names to find the entry to be deleted or edited. Press the 🔔 button to delete (following confirmation) or edit, proceeding in the same way as described above for entering a name.

NOTE 1: *If a name is deleted, any door lock release code associated with the name will automatically be deleted together with it.*

ERASING ALL NAMES

In certain cases (as when the entrance module is to be moved to another building), it may be necessary to erase all names from memory.
This can be done either with the programming terminal or from the keypad.

Erasing all names with the programming terminal

- After establishing a logic connection with the entrance module in question (see the description provided in the paragraph headed 'PROGRAMMING WITH TERMINAL 1038/56'), go to the page:

<Names> <Lock Rel.> <Program> <Cancel>< Exit>

- Select <Names> and press ↵. The name management menu will appear:

<Insert> <Modify> <Delete><Esc> <REP-PT><PT-REP>

- Hold down ← for 3 seconds. The display will show the following prompt:

Complete cancellation of repertory? <No> <Yes>

ONLY the names will be deleted, while the door lock release codes will remain. Select 'Yes' and confirm with the ↵ key to erase all names.

Erasing all names from the keypad

- Enter ‘00’ followed by the four-digit configuration access password (NOT the door lock release code programming password).
  The main menu will appear:

<LANGUAGE><CONF> <ID><TEST><ESC>

- Press the 🔑 button and key ‘5’ on the keypad simultaneously. The display will show the following prompt:

Eliminate ALL? <Y> <N>

- Answering ‘Yes’ will erase ALL names and ALL door lock release codes stored in the entrance module’s memory. If ‘No’ is selected, two further prompts will appear to ask confirmation before erasing ONLY the names or ONLY the door lock release codes:

Elimin. names? <Y> <N>

Elimin. lock rel.? <Y> <N>

Answering ‘Yes’ to the first prompt will cause ONLY the names to be erased.

SPEAKER VOLUME ADJUSTMENT

Voice level to apartment stations is set at the factory, and requires no adjustment.
Speaker volume at entrance panel is set to medium at the factory. If volume requires adjustment, do so using a screwdriver applied to volume control (9).

DISPLAY CONTRAST ADJUSTMENT

Display contrast is set at the factory to an optimal level. If contrast requires adjustment, do so using a screwdriver applied to contrast control (11).

ERROR CODES

Several types of error can be shown on the display.

ERRORS DURING NORMAL OPERATION

Call to a nonexistent station:

ERROR: NON-EXIST.

Call from a secondary entrance module to a station on another riser cable:

ERROR COLUMN

One or more keys jammed:

KEYBOARD LOCKED

Door lock release code incorrect or disabled:

LOCK REL. NON-EXIST.

ERRORS DURING INSTALLATION /PROGRAMMING

No signal on data line (terminal ‘D’ not connected or signal absent):

DATA LINE ERROR

Incorrect password entered:

INCORR. PASSWORD

Attempt to enter a name which is already in memory:

ERROR: NAME PRESENT

Attempt to enter a name with memory full:

ERROR: MEMORY FULL

Attempt to edit or delete a name with memory empty:

ERROR: MEMORY EMPTY

SELF-DIAGNOSTICS

No configuration memory:

ERROR: EEPROM MISSING

Configuration memory fault:

EEPROM ERROR

Name memory fault:

ERROR FLASH

TROUBLESHOOTING AND REPLACEMENT

DISPLAY

If problems occur with the display, first check that contrast is correctly adjusted by means of control (11) at the rear of the unit.
If problems persist, enter the configuration password or press the programming pushbutton at the rear of the unit to access the main menu:

<LANGUAGE><CONF>
<ID><TEST><ESC>

Select <TEST> and press the 🔔 button. Check that the following test pattern appears:

At this point., press each key and check that the corresponding character is displayed. The press the 🔔 button to go back to the previous menu and select <ESC> to return to normal entrance module operation.

ELECTRIC LOCK

If the electric lock fails to open, the cause can be readily identified as follows:

- If the entrance module emits an audible signal but the electric lock does not open, the problem is in the line between the module and the electric lock, or in the module control circuitry.
- If the entrance module does not open the electric lock and also fails to emit an audible signal, the door lock release command does not reach the module: the problem is on the apartment station side.

REPLACEMENT PROCEDURE

Replace the entire entrance module in the event of malfunction.
If a large number of door lock release codes have been programmed, the integrated circuit in which the codes are stored can be removed and installed in the new module.
This can also be done with the name memory.

- Turn off power supply to the old entrance module 1038/16.
- Back off the four captive fasteners retaining the rear cover and take off the cover.
- Remove integrated circuits U3 and U4.
- Take the rear cover off the new module and replace integrated circuit U3, taking care to orient it in the right direction (i.e., aligning the locating lugs provided on the component body and on the socket). Then replace integrated circuit U4, ensuring that the chamfered corner of circuit U4 is on the side towards circuit U3.
- Reinstall cover and tighten the four captive fasteners.
- **NOTICE: After replacing the memory chip, the serial number of the new entrance module will automatically become that of the old module. Change the serial number shown on the rear label (7) by hand.**
- Supply power to the new entrance module.

U4
U3

INSTALLATION

The entrance module must be installed on a K-Steel flush mounting back box Ref. 1152/62 (not supplied with module).
Prior to installing the module, back off the two self-tapping screws retaining the crossmember on the flush mounting back box and remove the crossmember.
The entrance module can then be secured to the back box structure using the seven M3 screws supplied together with the unit as shown in the figure below:

n° 7 M3

The K-Steel chassis is supplied together with tamperproof screws to ensure greater installation security.
If the entrance module is combined with additional alphabetic keypad Ref. 1038/73, the latter may be placed BELOW (or if this is not possible, alongside) the entrance module. If it is placed below, a three-module flush mounting back box Ref. 1155/63 must be used.

ADDITIONAL ALPHABETIC KEYPAD Ref. 1038/73

The additional alphabetic keypad Ref. 1038/73 makes it possible to enter letters of the alphabet when using call codes and special codes. The keypad can only be used in combination with a Ref. 1038/16 entrance panel, to which it is connected by means of the cable supplied together with the unit. The additional alphanumeric keypad must be placed BELOW (or if this is not possible, ALONGSIDE) entrance module 1038/16.

SPECIFICATIONS

Consumption in load units:	**3 LU**
Logic circuit	
Supply voltage:	**15 to 25.2 V DC**
Stand-by intake:	**~27 mA**
Service temperature range:	**- 10 to 50 °C**
Degree of protection:	**IP45**

DIGITIZERS WITH INTEGRATED SPEAKER UNIT AND PUSH BUTTON PANEL MODELS

Sec. Pag.

DIGITIZERS WITH INTEGRATED SPEAKER UNIT AND PUSH BUTTON PANEL MODELS

DIGITIZER WITH INTEGRATED SPEAKER UNIT Ref. 1038/62

DIGITIZER WITH INTEGRATED SPEAKER UNIT K-STEEL Ref. 1038/5

16-PUSHBUTTON EXPANSION MODULE Ref. 1038/17

VIDEO OUTDOOR STATION Mod. 725

KOMBI PUSH BUTTON PANEL

DOOR CAMERA MODULE FOR KOMBI ENTRANCE PANELS Ref. 825/70-/79

DIGIVOICE

SECTION 3 CONTENTS

DIGIVOICE SYSTEM

urmet DOMUS

DOMUS-AURA ARTISTIC 2-ROW PUSH-BUTTON PANEL Mod. 1110 (door phone) AND Mod. 1710 (video door phone)

ADJUSTABLE CCD CAMERA UNIT FOR ARTISTIC PUSH-BUTTON PANELS Ref. 1810/70

2-ROW DOMUS-AURA PUSH-BUTTON PANEL

K-STEEL MODULAR VANDAL-PROOF PANEL Mod. 1155 - Mod. 1755

DOOR CAMERA MODULES FOR K-STEEL ARMORED ENTRANCE PANELS Ref. 1755/70-/79

DIGITIZER WITH INTEGRATED SPEAKER UNIT Ref. 1038/62

Digitizer Ref. 1038/62 is contained in a plastic housing designed for installation on the following types of entrance panel:

- Urmet-Domus Model 725 two-row entrance panels
- Urmet-Domus Kombi series entrance panels

FEATURES

Digitizer Ref. 1038/62 provides the following features:

- Doorphone or video doorphone calling (video calling only if combined with door camera unit).
- Automatic doorphone or video doorphone traffic management on the basis of the number of available voice lines (1 or 2).
- Provision for assigning a numeric or alphanumeric code to call keys (see programming notes). Up to 159,999 different call codes can be used.
- Basic management of 8 direct call keys.
- Provision for increasing the number of call keys up to a maximum of 96 additional keys (104 keys total) using Ref. 1038/17 16-key expansion modules. A maximum of 6 expansion units can be connected to each digitizer via loop-through wiring.
- Relay type door lock release (unrestricted or protected by privacy feature) with NC-C-NO outputs (30 V DC-AC 6A max) with timer control from 0 seconds (momentary trigger) to 30 seconds.
- Provision for managing electric security locks.
- Lobby and postal service door lock release pushbutton input.
- Audible electric door lock actuation signals.
- Ringing duration programmable from 1 to 5 seconds.
- Distinctive ringing: continuous tone for main digitizers, intermittent tone for secondary digitizers.
- Audible ‘call routed’ and ‘call over’ signals.
- Audible service signals adjustable in intensity.
- Door-open sensor interface.
- Self-activation function, with no need for dedicated wiring.
- Remote programming through bus connection with Ref. 1038/56 programming terminal.

The digitizer consists of the following:

1) Plastic housing.
2) Speaker volume control.
3) Terminal block for system connections (MP1, MP2, MS).
4) Microphone volume control.
5) Terminal block for connecting 8 basic keys.
6) Terminal block for local auxiliary services (MA) and video signals (MV).
7) Programming connector for Ref. 1038/56 programming terminal.
8) Connector for Ref. 1038/17 16-key expansion modules.
9) Terminal block for electric lock connection (M-ES).
10) Adhesive labels indicating digitizer data, serial number and terminal block connections.

TERMINAL DESIGNATIONS

MP1- Main Voice Terminal Block 1

+V	Power supply positive (+24V)
0V	Power supply and data line ground
D	Data line
FA1	Outward voice conductor 1
FB1	Return voice conductor 1

MP2 - Main Voice Terminal Block 2

FA2	Outward voice conductor 2
FB2	Return voice conductor 2
+F	Voice power supply positive (+33V)
0F	Voice ground

MS - Secondary Terminal Block

+V	Power supply positive (+24V)
0V	Power supply and data line ground
D	Data line
FA	Outward voice conductor
FB	Return voice conductor

MA - Auxiliary Terminal Block

0V	Key/contact/pushbutton common
PH	Lobby door lock release pushbutton input
P	Postal service door lock release contact input
SP	Door sensor input

MV - Video Terminal Block

+V	Power supply, Ref. 1038/68 video entrance panel relay
SC	Drive output, Ref. 1038/68 video entrance panel relay - riser cable
SL	Drive output, Ref. 1038/68 video entrance panel relay - local
S12	Drive output, Ref. 1038/68 video entrance panel relay - channels 1/2
S1	Drive output, Ref. 1032/9 video entrance panel relay- channel 1
S2	Drive output, Ref. 1032/9 video entrance panel relay- channel 2
0V	Ground, Ref. 1038/68 relays

MT - Key Terminal Block

1	Basic key 1
2	Basic key 2
3	Basic key 3
4	Basic key 4
5	Basic key 5
6	Basic key 6
7	Basic key 7
8	Basic key 8
0V	Key common

M-ES - Electric lock terminal block

NC	Normally closed contact
C	Common
NO	Normally open contact

DIGIVOICE

DIGITIZER WITH INTEGRATED SPEAKER UNIT Ref. 1038/62

SPECIFICATIONS - OPERATION - PROGRAMMING

urmet DOMUS

SPECIFICATIONS

Intake in terms of unitary loads: **5 UL**
(including expansion modules 1038/17, where fitted)

Logic circuits

Logic power voltage (+V/0V) :	**15 ÷ 25.2 Vdc**
Stand-by intake:	**~30 mA**
Calling intake:	**~50 mA**
Voice on intake:	**~50 mA**
Intake of timed lock circuit only:	**~20 mA**

Voice circuits

Voice power voltage (+F/0F):	**30 ÷ 36 Vdc**
Stand-by intake:	**~1 mA**
Voice on intake:	**~55 mA**

Relay energising output: **NC-C-NO - Max 30Vac/dc 6A**

Operating temperature range: **from -10 to +50 °C**

OPERATION

CALLS

Call can be made to up to 104 stations by pressing the corresponding keys on the entrance panels associated with digitizer Ref. 1038/62.
In addition, the guard door switchboard station 1038/40 can be called simply by pressing a call button with which the switchboard station code has been associated at the programming stage.
The ringer at the called apartment station will be activated for the programmed time (from 1 to 5 seconds), with a continuous ring tone (main digitizer) or an intermittent tone (secondary digitizer).
Three audible beeps will confirm that the call has been forwarded. Pressing the call button again will extend the ringer activation time.

CALL CODES ASSIGNED TO PUSHBUTTONS

A numeric or alphanumeric code between 0000 and JJJJ can be assigned to each call button.
These codes identify the doorphone or video doorphone apartment station that will be called when the button is pressed.
Call codes for the guard door switchboard station can also be assigned to buttons.

PROGRAMMING

PROGRAMMING METHODS

The digitizer can be programmed only by means of programming terminal Ref. 1038/56.
The terminal can be connected either:
- Locally, to programming connector (7) located on the side of the digitizer to be programmed.
- To any other entrance module, guard door switchboard station or digitizer in the system.
- To any passive wiring block (Ref. 1038/90) connected to the system.

PARAMETERS

Data to be programmed are as follows:

Type of digitizer station

This step is used to select operating mode. The digitizer can be configured as a main or secondary station.

If configured as the main station, the digitizer can send calls to apartment stations in the range between **0** and **JJJJ**. If configured as a secondary station, the digitizer can send calls to apartment stations on its own riser cable.

Digitizer station number

Whether configured as main or secondary, each digitizer station is identified by a number. However, the numbers that can be assigned to a digitizer station will depend on the latter's type as follows.
Main digitizer stations can be assigned numbers from 1 to JJJ, while secondary digitizer stations can be assigned numbers from 1 to JJ. For secondary stations, the number identifies the digitizer's riser cable.

Engaged time

The programmed engaged time establishes the minimum duration of a voice communication from the moment the call is made.
The same value must be programmed for all calling devices, and may be 10, 20, 30 or 40s.

Electric lock management criteria

Door lock release may be unrestricted or protected by privacy feature. Operation will depend on the type of digitizer station as follows:
- **Main station**: If the door lock release is unrestricted, the digitizer opens the door in response to commands received from any decoder. If the door lock release is protected by privacy feature, the digitizer will open the door only in response to commands received from the doorphone branch with which a call is in progress.
- **Secondary station**: If the door lock release is unrestricted, the digitizer opens the door in response to commands received from any decoder on its riser cable. If the door lock release is protected by privacy feature, the digitizer will open the door only in response to commands received from the doorphone branch with which a call is in progress.

The foregoing description does not apply to door lock release commands received from the switchboard. In such cases, the digitizer will open the door regardless of station type.

Door lock release time

The programmed door lock release time establishes the duration of electric door lock relay activation. This time may be 0 to 30 seconds, where 0 means that the relay is excited by a single pulse.

Ring duration

The length of time that a doorphone will ring (or the guard door switchboard station when called by a main digitizer) will depend on how the calling digitizer is programmed. Ring duration can be 1 to 5 seconds.

Number of voice lines

One or two independent voice lines may be physically present between main and secondary digitizers. If there is only one line, the digitizer will necessarily use this channel.

Buzzer volume setting

Volume of the digitizer signaling buzzer can be set to three levels: low (not off), medium and high.

Call button programming

Each of the 104 pushbuttons that can be connected to the unit can be associated with a user code between 0 and JJJJ, independently of digitizer code and type.

Default programming

Default parameters for the device are as follows:

DIGITIZER TYPE	**MAIN**
DIGITIZER STATION CODE	**JJJ**
ENGAGED TIME	**20 seconds**

ELECTRIC LOCK MANAGEMENT CRITERION	**PROTECTED BY PRIVACY FEATURE**
DOOR LOCK RELEASE TIME	**0 seconds**
RING DURATION	**3 seconds**
NUMBER OF VOICE LINES	**1**
BUZZER VOLUME SETTING	**MEDIUM**
DIGITIZER ID:	**“........... STREET”**
CALL BUTTONS:	**rrrr (private code)**

PROGRAMMING WITH TERMINAL 1038/56

Programming by means of the terminal must be performed with the system on.

Terminal firmware release must be 2.0 or higher.

- Turn on the terminal, holding down the ‘ON’ key for at least 3 seconds.
- Plug the programming cord into the associated socket (7) or, alternatively, into another entrance module, guard door switchboard station or passive wiring block. The terminal will automatically be connected to the data line, and the display will show the following message for 3 seconds:

```
Programming
```

This will be followed by:

```
Search by:
<Serial Number>
<Type>
<Acquisition>
```

- Select the option <Serial Number >. The display will show:

```
Serial number:
000000
```

Type in the digitizer serial number shown on the labels (10) alongside the designation S/N and press ↵. The display will show:

```
DIG     SN: uvwxyz
- - - - - - - - - - - - - - - -
Street. . . . . . . . . . .
```

At this point, the terminal is logically connected to the digitizer (DIG) which has the selected serial number (‘uvwxyz’). The digitizer buzzer will emit a series of three beeps to indicate that the digitizer is in ‘Maintenance’ status.

NOTE: *In ‘Maintenance’ status, the digitizer will continue to control the electric lock when the lobby pushbutton or postal service door lock release contact is actuated.*

- Digitizer configuration parameters can now be programmed. These parameters are shown on six screen pages:

(Page 1: Device detected (DIG) and Serial Number, neither of which can be changed; Installation site)

```
DIG     SN: uvwxyz
- - - - - - - - - - - - - - - -
Street. . . . . . . . . . .
```

(Page 2: Type, Code, Engaged Time, Lock Management)

```
Type: P  Cod: 001
- - - - - - - - - - - - - - - -
Busy: 10 s
Opener: S-00 s
```

(Page 3: Ring Duration, Number of Lines, Buzzer Volume)

```
Call: 03 s
Lines: 1
Buzzer: 2
```

- Use the ← and → keys to move to the desired parameters, program by means of the alphanumeric keys, and press ↵ to confirm.
- Press ‘Esc’ to view the next page.

```
<Buttons>
<Cancel>
<Program>
<Quit>
```

- Move the cursor to <Program> and press ↵. The terminal will write programmed data in the digitizer memory and display the outcome of the write operation.

(Page 4: Digitizer pushbutton code programming)

```
<Buttons>
<Cancel>
<Program>
<Quit>
```

- With the cursor on <Buttons> press ↵ to go on to the basic and additional pushbutton programming page.

(Page 5: Basic pushbutton code programming)

```
PE-01: xxxx
PE-02: xxxx
PE-03: xxxx
<P><S><OK><ESC>
```

(Page 6: Expansion module pushbutton code programming)

```
PE-07: xxxx
PE-08: xxxx
E1-01: xxxx
<P><S><OK><ESC>
```

- Here, ‘PE-0y: xxxx’ is basic key number ‘y’ (1-8) with code xxxx.
- ‘Ez-yy: xxxx’ This is key ‘yy’ (1 to 16) on expansion module number ‘z’ (1 to 6) with code xxxx.
- Select <P> to go back to the previous pushbutton screen page.
- Select <S> to go on to the next pushbutton screen page.
- Select <OK> to program data shown on each individual screen page.
  WARNING: Remember to select <OK> after programming each screen page, as otherwise the data entered in the screen page will be lost.
- A programmed code can only be deleted by overwriting it with a code that does not exist in the system (e.g., ‘JJJJ’).
- After programming keys, move the cursor to <ESC> and press Enter. Then select <Exit> and press ↵. At this point (and ONLY at this point), the digitizer will exit from the maintenance status and return to normal operation.
- Disconnect the programming cord and turn off the terminal by holding down the ‘OFF’ key for at least 3 seconds, or, if further digitizers connected to the system are to be programmed, repeat the steps described above.

INSTALLATION

Installation on Kombi series entrance panel

Installation on Domus-Aura two-row entrance panel

Door phone push button panel Mod. 1110

Video door phone push button panel Mod. 1710

Installation on Model 725 two-row entrance panel

An adhesive gasket is supplied together with the digitizer.

This gasket must be used only when the digitizer is installed on Model 725 two-row entrance panels. It is NOT to be used with Kombi or Domus Aura series entrance panels.

SPEAKER VOLUME ADJUSTMENT

Voice levels at entrance panel and to apartment stations are set to medium at the factory. If volume requires adjustment, do so using a screwdriver applied to volume controls (2) and (4).

ERROR SIGNALS

The buzzer signals different types of error.

Signal	Interpretation
3 beeps at activation	Device operative
6 beeps every 3 seconds	Data line not supplied
6 beeps	Decoder nonexistent, call from secondary digitizer to decoder on other riser cable, or pushbutton not programmed
Continuous beep until a key is pressed (device remains INOPERATIVE)	No EEPROM or EEPROM with wrong serial number for device
Beep for 5 seconds	EEPROM CKS error

TROUBLESHOOTING AND REPLACEMENT

ELECTRIC LOCK

If the electric lock fails to open, the cause can be readily identified as follows:

- If the digitizer emits an audible signal but the electric lock does not open, the problem is in the line between the digitizer and the electric lock, or in the control relay.
- If the digitizer does not open the electric lock and also fails to emit an audible signal, the door lock release command does not reach the digitizer: the problem is on the apartment station side.

REPLACEMENT PROCEDURE

Replace the digitizer in the event of malfunction.
If a large number of keys have been programmed, the integrated circuit in which the codes are stored can be removed and installed in a new digitizer.

- Turn off power supply to the old digitizer 1038/62.
- Take off the top cover, backing off the two retaining screws and pressing lightly on the two clips.
- Remove integrated circuit from socket.
- Take the top cover off the new digitizer and replace the corresponding integrated circuit, taking care to orient it in the right direction (the integrated circuit pin to which the shielding wire is soldered must face towards the terminal block, and not towards the microprocessor).
- Reinstall cover.
- **NOTICE: After replacing the memory chip, the serial number of the new digitizer will automatically become that of the old digitizer. Change the serial number shown on the labels (10) by hand.**
- Supply power to the new digitizer.

DIGITIZER WITH INTEGRATED SPEAKER UNIT K-STEEL Ref. 1038/5

Digitizer Ref. 1038/5 employs single-module K-Steel mechanical componentry.

FEATURES

Digitizer Ref. 1038/5 provides the following features:

- Doorphone or video doorphone calling (video calling only if combined with door camera unit).
- Automatic doorphone or video doorphone traffic management on the basis of the number of available voice lines (1 or 2).
- Provision for assigning a numeric or alphanumeric code to call keys (see programming notes). Up to 159,999 different call codes can be used.
- Basic management of 8 direct call keys, the first two of which are pre-wired.
- Provision for increasing the number of call keys up to a maximum of 96 additional keys (104 keys total) using Ref. 1038/17 16-key expansion modules. A maximum of 6 expansion units can be connected to each digitizer via loop-through wiring.
- Relay type door lock release (unrestricted or protected by privacy feature) with NC-C-NO outputs (30 V DC-AC 6A max) with timer control up to 30 seconds.
- Provision for managing electric security locks.
- Lobby and postal service door lock release pushbutton input.
- Audible electric door lock actuation signals.
- Ringing duration programmable from 1 to 5 seconds.
- Distinctive ringing: continuous tone for main digitizers, intermittent tone for secondary digitizers.
- Audible ‘call routed’ and ‘call over’ signals.
- Audible service signals adjustable in intensity.
- Door-open sensor interface.
- Self-activation function, with no need for dedicated wiring.
- Remote programming through bus connection with Ref. 1038/56 programming terminal.

The digitizer consists of the following:

1) Programming connector (PROG) for Ref. 1038/56 programming terminal.
2) Connection terminals for the two keys provided with unit (1-2-0V) and associated backlighting (0~ - 12~).
3) Microphone volume control.
4) Terminal block for connecting 8 basic keys. The first keys are pre-wired.
5) Connector (EXP) for Ref. 1038/17 16-key expansion modules.
6) Terminal block MS (system connections).
7) Terminal block MP2 (system connections).
8) Terminal block MP1 (system connections).
9) Terminal block for local auxiliary services and video signals.
10) Speaker volume control.
11) Terminal block for electric lock connection.

TERMINAL DESIGNATIONS

MP1- Main Voice Terminal Block 1

+V	Power supply positive (+24V)
0V	Power supply and data line ground
D	Data line
FA1	Outward voice conductor 1
FB1	Return voice conductor 1

MP2 - Main Voice Terminal Block 2

FA2	Outward voice conductor 2
FB2	Return voice conductor 2
+F	Voice power supply positive (+33V)
0F	Voice ground

MS - Secondary Terminal Block

+V	Power supply positive (+24V)
0V	Power supply and data line ground
D	Data line
FA	Outward voice conductor
FB	Return voice conductor

Auxiliary and Video Terminal Block

0V	Key/contact/pushbutton common
PH	Lobby door lock release pushbutton input
P	Postal service door lock release contact input
SP	Door sensor input
+V	Power supply, Ref. 1038/68 video entrance panel relay
SC	Drive output, Ref. 1038/68 video entrance panel relay - riser cable
SL	Drive output, Ref. 1038/68 video entrance panel relay - local
S12	Drive output, Ref. 1038/68 video entrance panel relay - channels 1/2
S1	Drive output, Ref. 1032/9 video entrance panel relay- channel 1
S2	Drive output, Ref. 1032/9 video entrance panel relay- channel 2
0V	Ground, Ref. 1032/68 relays

Key Terminal Block

1	Basic key 1
2	Basic key 2
3	Basic key 3
4	Basic key 4
5	Basic key 5
6	Basic key 6
7	Basic key 7
8	Basic key 8
0V	Key common

Electric lock terminal block

NC	Normally closed contact
C	Common
NO	Normally open contact

SPECIFICATIONS

Consumption in load units: **5 LU**
(including any Ref. 1038/17 expansion modules)

Logic circuits

Logic circuit supply voltage (+V/0V):	**15 to 25.2 Vdc**
Stand-by current draw:	**~30 mA**
Current draw during calls:	**~50 mA**
Current draw with voice signal active:	**~50 mA**
Timed lock release circuitry current draw:	**~20 mA**

Voice Circuits

Voice circuit supply voltage (+F/0F):	**30 to 36 Vdc**
Stand-by current draw:	**~1 mA**
Current draw with voice signal active:	**~55 mA**

Key backlighting circuit:

Supply voltage:	**12 Vac**
Current draw:	**100mArms**

Relay control outputs: **NC-C-NO 30 Vac/dc 6A max.**

Service temperature range: **-10 to 50 °C**

OPERATION

CALLS

Call can be made to up to 104 stations by pressing the corresponding keys on the entrance panels associated with digitizer Ref. 1038/5.
In addition, the guard door switchboard station 1038/40 can be called simply by pressing a call button with which the switchboard station code has been associated at the programming stage.
The ringer at the called apartment station will be activated for the programmed time (from 1 to 5 seconds), with a continuous ring tone (main digitizer) or an intermittent tone (secondary digitizer).
Three audible beeps will confirm that the call has been forwarded. Pressing the call button again will extend the ringer activation time.

CALL CODES ASSIGNED TO PUSHBUTTONS

A numeric or alphanumeric code between 0000 and JJJJ can be assigned to each call button.
These codes identify the doorphone or video doorphone apartment station that will be called when the button is pressed.
Call codes for the guard door switchboard station can also be assigned to buttons.

PROGRAMMING

PROGRAMMING METHODS

The digitizer can be programmed only by means of programming terminal Ref. 1038/56.
The terminal can be connected either:

- Locally, to programming connector (1) located on the side of the digitizer to be programmed.
- To any other entrance module, guard door switchboard station or digitizer in the system.
- To any passive wiring block (Ref. 1038/90) connected to the system.

PARAMETERS

Data to be programmed are as follows:

Type of digitizer station

This step is used to select operating mode. The digitizer can be configured as a main or secondary station.
If configured as the main station, the digitizer can send calls to apartment stations in the range between 0 and JJJJ. If configured as a secondary station, the digitizer can send calls to apartment stations on its own riser cable.

Digitizer station number

Whether configured as main or secondary, each digitizer station is identified by a number. However, the numbers that can be assigned to a digitizer station will depend on the latter's type as follows.
Main digitizer stations can be assigned numbers from 1 to JJJ, while secondary digitizer stations can be assigned numbers from 1 to JJ. For secondary stations, the number identifies the digitizer's riser cable.

Engaged time

The programmed engaged time establishes the minimum duration of a voice communication from the moment the call is made.
The same value must be programmed for all calling devices, and may be 10, 20, 30 or 40s.

Electric lock management criteria

Door lock release may be unrestricted or protected by privacy feature. Operation will depend on the type of digitizer station as follows:

- **Main station**: If the door lock release is unrestricted, the digitizer opens the door in response to commands received from any decoder. If the door lock release is protected by privacy feature, the digitizer will open the door only in response to commands received from the doorphone branch with which a call is in progress.
- **Secondary station**: If the door lock release is unrestricted, the digitizer opens the door in response to commands received from any decoder on its riser cable. If the door lock release is protected by privacy feature, the digitizer will open the door only in response to commands received from the doorphone branch with which a call is in progress.

The foregoing description does not apply to door lock release commands received from the switchboard. In such cases, the digitizer will open the door regardless of station type.

Door lock release time

The programmed door lock release time establishes the duration of electric door lock relay activation. This time may be 0 to 30 seconds, where 0 means that the relay is excited by a single pulse.

Ring duration

The length of time that a doorphone will ring (or the guard door switchboard station when called by a main digitizer) will depend on how the calling digitizer is programmed. Ring duration can be 1 to 5 seconds.

Number of voice lines

One or two independent voice lines may be physically present between main and secondary digitizers. If there is only one line, the digitizer will necessarily use this channel.

Buzzer volume setting

Volume of the digitizer signaling buzzer can be set to three levels: low (not off), medium and high.

Call button programming

Each of the 104 pushbuttons that can be connected to the unit can be associated with a user code between 0 and JJJJ, independently of digitizer code and type.

Default programming

Default parameters for the device are as follows:

DIGITIZER TYPE	**MAIN**
DIGITIZER STATION CODE	**JJJ**
ENGAGED TIME	**20 seconds**
ELECTRIC LOCK MANAGEMENT CRITERION	**PROTECTED BY PRIVACY FEATURE**
DOOR LOCK RELEASE TIME	**0 seconds**
RING DURATION	**3 seconds**
NUMBER OF VOICE LINES	**1**
BUZZER VOLUME SETTING	**MEDIUM**
DIGITIZER ID:	**“........... STREET”**
CALL BUTTONS:	**rrrr (private code)**

PROGRAMMING WITH TERMINAL 1038/56

Programming by means of the terminal must be performed with the system on.
Terminal firmware release must be 2.0 or higher.

- Turn on the terminal, holding down the ‘ON’ key for at least 3 seconds.
- Plug the programming cord into the associated socket (1) or, alternatively, into another entrance module, guard door switchboard station or passive wiring block. The terminal will automatically be connected to the data line, and the display will show the following message for 3 seconds:

```
Programming
```

This will be followed by:

```
Search by:
<Serial Number>
<Type>
<Acquisition>
```

- Select the option <Serial Number >. The display will show:

```
Serial number:
000000
```

Type in the digitizer serial number shown on the rear label alongside the designation S/N and press ↵. The display will show:

```
DIG     SN: uvwxyz
- - - - - - - - - - - - - - - -
Street. . . . . . . . . . .
```

At this point, the terminal is logically connected to the digitizer (DIG) which has the selected serial number (‘uvwxyz’). The digitizer buzzer will emit a series of three beeps to indicate that the digitizer is in ‘Maintenance’ status.

NOTE: In ‘Maintenance’ status, the digitizer will continue to control the electric lock when the lobby pushbutton or postal service door lock release contact is actuated.

- Digitizer configuration parameters can now be programmed. These parameters are shown on six screen pages:

(Page 1: Device detected (DIG) and Serial Number, neither of which can be changed; Installation site)

```
DIG     SN: uvwxyz
- - - - - - - - - - - - - - - -
Street. . . . . . . . . . .
```

(Page 2: Type, Code, Engaged Time, Lock Management)

```
Type: P  Cod: 001
- - - - - - - - - - - - - -
Engaged: 10 s
Lock rel.: P-00 s
```

(Page 3: Ring Duration, Number of Lines, Buzzer Volume)

```
Ring: 03 s
Lines: 1
Buzzer: 2
```

- Use the ← and → keys to move to the desired parameters, program by means of the alphanumeric keys, and press ↵ to confirm.
- Press ‘Esc’ to view the next page.

```
<Pushbuttons>
<Delete>
<Program>
<Exit>
```

- Move the cursor to <Program> and press ↵. The terminal will write programmed data in the digitizer memory and display the outcome of the write operation.

(Page 4: Digitizer pushbutton code programming)

```
<Pushbuttons>
<Delete>
<Program>
<Exit>
```

- With the cursor on <Pushbuttons> press Enter to go on to the basic and additional pushbutton programming page.

(Page 5: Basic pushbutton code programming)

```
PE-01: xxxx
PE-02: xxxx
PE-03: xxxx
<P><S><OK><ESC>
```

(Page 6: Expansion module pushbutton code programming)

```
PE-07: xxxx
PE-08: xxxx
E1-01: xxxx
<P><S><OK><ESC>
```

- Here, ‘PE-0y: xxxx’ is basic key number ‘y’ (1-8) with code xxxx.
- ‘Ez-yy: xxxx’ This is key ‘yy’ (1 to 16) on expansion module number ‘z’ (1 to 6) with code xxxx.
- Select <P> to go back to the previous pushbutton screen page.
- Select <S> to go on to the next pushbutton screen page.
- Select <OK> to program data shown on each individual screen page. **WARNING: Remember to select <OK> after programming each screen page, as otherwise the data entered in the screen page will be lost.**
- A programmed code can only be deleted by overwriting it with a code that does not exist in the system (e.g., ‘JJJJ’).
- After programming keys, move the cursor to <ESC> and press Enter. Then select <Exit> and press ↵. At this point (and ONLY at this point), the digitizer will exit from the maintenance status and return to normal operation.
- Disconnect the programming cord and turn off the terminal by holding down the ‘OFF’ key for at least 3 seconds, or, if further digitizers connected to the system are to be programmed, repeat the steps described above.

INSTALLATION

n° 4 M3 x 10

Sch. 1038/17

SPEAKER VOLUME ADJUSTMENT

Voice levels at entrance panel and to apartment stations are set to medium at the factory. If volume requires adjustment, do so using a screwdriver applied to volume controls (3) and (10).

ERROR SIGNALS

The buzzer signals different types of error.

Signal	Interpretation
3 beeps at activation	Device operative
6 beeps every 3 seconds	Data line not supplied
6 beeps	Decoder nonexistent, call from secondary digitizer to decoder on other riser cable, or pushbutton not programmed
Continuous beep until a key is pressed (device remains INOPERATIVE)	No EEPROM or EEPROM with wrong serial number for device
Beep for 5 seconds	EEPROM CKS error

TROUBLESHOOTING AND REPLACEMENT

ELECTRIC LOCK

If the electric lock fails to open, the cause can be readily identified as follows:

- If the digitizer emits an audible signal but the electric lock does not open, the problem is in the line between the digitizer and the electric lock, or in the control relay.
- If the digitizer does not open the electric lock and also fails to emit an audible signal, the door lock release command does not reach the digitizer: the problem is on the apartment station side.

REPLACEMENT PROCEDURE

Replace the digitizer in the event of malfunction.
If a large number of keys have been programmed, the integrated circuit in which the codes are stored can be removed and installed in a new digitizer.

- Turn off power supply to the old digitizer 1038/5.
- Remove rear cover, take out the removable terminal blocks and disconnect wiring from non-removable terminal blocks. Remove the expansion module connector (if any) and back off the four retaining screws.
- Remove integrated circuit from socket.
- Repeat the foregoing steps on the new digitizer and insert the memory chip, taking care to orient it in the right direction.
- Reinstall cover.
- **NOTICE: After replacing the memory chip, the serial number of the new digitizer will automatically become that of the old digitizer. Change the serial number shown on the labels (10) by hand.**
- Supply power to the new digitizer.

U1

16-PUSHBUTTON EXPANSION MODULE Ref. 1038/17

The 16-pushbutton expansion module Ref. 1038/17 is an accessory which, together with digitizers Ref. 1038/62 (for Kombi series, Model 725 and Domus Aura two-row entrance panels) and Ref. 1038/5 (for K-Steel series entrance panels), makes it possible to expand the maximum number of call keys up to 104. A maximum of 6 expansion units can be connected to each digitizer via loop-through wiring.

When installed on Kombi series entrance panels, the expansion module is retained by screws.

When installed on Model 725 or K-Steel series entrance panels, the expansion module snaps into the panel.

TERMINAL DESIGNATIONS

C	Keys common
P1	Key 1
..	....
..	....
P16	Key 16

SPECIFICATIONS

Current draw:	**1 mA max**
Service temperature range:	**- 10 to 50 °C**
Humidity:	**90% R.H. at 30 °C**

Connection with the digitizer or with further expansion modules is accomplished by means of an approximately 55 cm long 5-conductor cable. The cable is routed inside the entrance panel as shown in the diagrams below.

To the digitizer

Other expansion modules

Mod. Kombi

Mod. 725 two-rows

Mod. K-Steel

Mod. Domus-Aura two-rows

For Ref. 1110/214 door phone and Ref.1710/214 video door phone 14 button panel only: move support A as shown in the drawing.

Fasten the device to the flush-mounting box frame with the two-sided adhesive tape provided.

VIDEO OUTDOOR STATION Mod. 725

CONFIGURATION

The CCD video outdoor station Mod. 725 is available in the following version:
- wall embedding.

The video outdoor station Mod. 725 includes:
- TV camera unit with
  - front plate with embedding box and lighting devices ref. 725/602, with front plate width 205 mm, for capacities from 4 buttons upwards, that can be coupled to push button panels Mod. 725 with 4 to 28 buttons on 2 rows;
  - CCD TV camera with lens;
- push button panel Mod. 725 arranged for loudspeaking unit.

Ref. 725/602

CCD TV CAMERA Ref. 725/600

Easy to insert and to remove from the embedding box, it is supplied complete of:
- TV camera with optics and incorporated shutter; the focus arrangement is fixed. Other lenses cannot be used;
- coupling for connection to the front plate.
  It can be used with Scout and Ranger monitors

Two types of TV camera units are available:
- Ref. 725/600 (50Hz)
- Ref. 725/79 (60 Hz)

PRODUCT LIST

2-row panels with door unit set-up

With 4 buttons	**Ref. 725/204**
With 6 buttons	**Ref. 725/206**
With 8 buttons	**Ref. 725/208**
With 10 buttons	**Ref. 725/210**
With 12 buttons	**Ref. 725/212**
With 14 buttons	**Ref. 725/214**
With 16 buttons	**Ref. 725/216**
With 18 buttons	**Ref. 725/218**
With 20 buttons	**Ref. 725/220**
With 22 buttons	**Ref. 725/222**
With 24 buttons	**Ref. 725/224**
With 26 buttons	**Ref. 725/226**
With 28 buttons	**Ref. 725/228**

2-row panels without door unit set-up

With 20 buttons	**Ref. 725/020**
With 22 buttons	**Ref. 725/022**
With 24 buttons	**Ref. 725/024**
With 26 buttons	**Ref. 725/026**
With 28 buttons	**Ref. 725/028**
With 30 buttons	**Ref. 725/030**
With 32 buttons	**Ref. 725/032**
With 34 buttons	**Ref. 725/034**
With 36 buttons	**Ref. 725/036**

Wall embedding frames for push button panel Mod. 725 with 2 row of buttons

For 4 buttons	**Ref. 725/62**
For 6 buttons	**Ref. 725/63**
For 8 buttons	**Ref. 725/64**
For 10 buttons	**Ref. 725/65**
For 12 buttons	**Ref. 725/66**
For 14 buttons or 4 buttons and TV camera unit	**Ref. 725/67**
For 16 buttons or 6 buttons and TV camera unit	**Ref. 725/68**
For 18 buttons or 8 buttons and TV camera unit	**Ref. 725/69**
For 20 buttons or 10 buttons and TV camera unit	**Ref. 725/70**
For 22 buttons or 12 buttons and TV camera unit	**Ref. 725/71**
For 24 buttons or 14 buttons and TV camera unit	**Ref. 725/72**
For 26 buttons or 16 buttons and TV camera unit	**Ref. 725/73**
For 28 buttons or 18 buttons and TV camera unit	**Ref. 725/74**

Case and hood for 2-row door phone panels

From 4 to 10 buttons with door unit	**Ref. 725/721**
From 12 to 24 buttons with door unit or from 20 to 32 buttons not set up for door unit	**Ref. 725/722**

Camera unit

Front and flush-mounting box with 2-row glass without camera	**Ref. 725/602**
CCD 1/3” camera with 50 Hz lens for Mod. 725	**Ref. 725/600**
CCD 1/3” camera with 60 Hz lens for Mod. 725	**Ref. 725/79**

DIMENSIONS

43 mm

194 mm

399 mm

604 mm

H1

2 rows

4 rows

6 rows

205 mm

410 mm

615 mm

H2

		2 rows	4 rows	6 rows	Dimensions **height** (mm) flush **H1**	front **H2**
Number of buttons		4			177	192
		6			201	216
		8			225	240
		10			249	264
		12	32		273	288
		14	36		297	312
		16	40	64	321	336
		18	44	70	345	360
		20	48	76	369	384
		22	52	82	393	408
		24	56	88	417	432
		26	60	94	441	456
		28			465	480
Dimensions **width** (mm)	flush	194	399	604		
	front	205	410	615		

Note: *Position the lower edge of the push-button panel at a height of approximately 1.50 metres from the floor.*

1,5 m

DIGIVOICE

PUSH-BUTTON PANEL Ref. 725
DOOR PHONE SYSTEMS

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MODULAR EXAMPLES FOR VARIOUS CAPACITIES

(*): in alternatives

		4	6	8	10
	Door unit with digitiser	1038/62	1038/62	1038/62	1038/62
	16-users expansion module	-	-	-	1038/17
	Buttons set up for door unit	725/204	725/206	725/208	725/210
	Buttons not set up for door unit	-	-	-	-
ACCESSORIES	(*) Flush mounting frame	725/62	725/63	725/64	725/65
	(*) Wall mounting box with hood	725/721	725/721	725/721	725/721

		12	14	16	18
	Door unit with digitiser	1038/62	1038/62	1038/62	1038/62
	16-users expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17	1 x 1038/17
	Buttons set up for door unit	725/212	725/214	725/216	725/218
	Buttons not set up for door unit	-	-	-	-
ACCESSORIES	(*) Flush mounting frame	725/66	725/67	725/68	725/69
	(*) Wall mounting box with hood	725/722	725/722	725/722	725/722

		20	22	24	26
	Door unit with digitiser	1038/62	1038/62	1038/62	1038/62
	16-users expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17	2 x 1038/17
	Buttons set up for door unit	725/220	725/222	725/224	725/226
	Buttons not set up for door unit	-	-	-	-
ACCESSORIES	(*) Flush mounting frame	725/70	725/71	725/72	725/73
	(*) Wall mounting box with hood	725/722	725/722	725/722	-

		28	32	36	40
	Door unit with digitiser	1038/62	1038/62	1038/62	1038/62
	16-users expansion module	2 x 1038/17	2 x 1038/17	2 x 1038/17	2 x 1038/17
	Buttons set up for door unit	725/228	725/212	725/214	725/216
	Buttons not set up for door unit	-	725/020	725/022	725/024
ACCESSORIES	(*) Flush mounting frame	725/74	-	-	-
	(*) Wall mounting box with hood	-	-	-	-

MODULAR EXAMPLES FOR VARIOUS CAPACITIES

(∗): in alternatives

		44	48	52
	Door unit with digitiser	1038/62	1038/62	1038/62
	16-users expansion module	3 x 1038/17	3 x 1038/17	3 x 1038/17
	Buttons set up for door unit	725/218	725/220	725/222
	Buttons not set up for door unit	725/026	725/028	725/030
ACCESSORIES	(∗) Flush mounting frame	-	-	-
	(∗) Wall mounting box with hood	-	-	-

		56	60	64
	Door unit with digitiser	1038/62	1038/62	1038/62
	16-users expansion module	3 x 1038/17	4 x 1038/17	4 x 1038/17
	Buttons set up for door unit	725/224	725/226	725/216
	Buttons not set up for door unit	725/032	725/034	2 x 725/024
ACCESSORIES	(∗) Flush mounting frame	-	-	-
	(∗) Wall mounting box with hood	-	-	-

		70	76	82
	Door unit with digitiser	1038/62	1038/62	1038/62
	16-users expansion module	4 x 1038/17	5 x 1038/17	5 x 1038/17
	Buttons set up for door unit	725/218	725/220	725/222
	Buttons not set up for door unit	2 x 725/026	2 x 725/028	2 x 725/030
ACCESSORIES	(∗) Flush mounting frame	-	-	-
	(∗) Wall mounting box with hood	-	-	-

		88	94
	Door unit with digitiser	1038/62	1038/62
	16-users expansion module	5 x 1038/17	6 x 1038/17
	Buttons set up for door unit	725/224	725/226
	Buttons not set up for door unit	2 x 725/032	2 x 725/034
ACCESSORIES	(∗) Flush mounting frame	-	-
	(∗) Wall mounting box with hood	-	-

CAMERA UNIT Mod. 725
VIDEO DOOR PHONE SYSTEMS

DIMENSIONS

53 mm | 194 mm | 399 mm | 604 mm | H1 | 2 rows | 4 rows | 6 rows | 43 mm

205 mm | 410 mm | 615 mm | H2

		2 rows	4 rows	6 rows	Dimensions **height** (mm)	
					flush **H1**	front **H2**
Number of buttons		4			297	312
		6	30	54	321	336
		8	34	60	345	360
		10	38	66	369	384
		12	42	72	393	408
		14	46	78	417	432
		16	50	84	441	456
		18			465	480
		20			489	504
		22			513	528
		24			537	552
		26			561	576
		28			585	600
Dimensions **width** (mm)	flush	194	399	604		
	front	205	410	615		

1,55 ÷ 1,60 m

Note: ***position the button so that the upper edge of the camera unit flush mounting box is at a height of approximately 1.55-1.60 metres from the ground.***

MODULAR EXAMPLES FOR VARIOUS CAPACITIES

(*): in alternatives

	4	6	8	10
Door unit with digitiser	1038/62	1038/62	1038/62	1038/62
16-users expansion module	-	-	-	1 x 1038/17
Camera	725/600	725/600	725/600	725/600
Front unit	725/602	725/602	725/602	725/602
Push-button panel	725/204	725/206	725/208	725/210
(*) Flush mounting frame	725/67	725/68	725/69	725/70
(*) Hood	725/702	725/702	725/702	725/702

	12	14	16	18
Door unit with digitiser	1038/62	1038/62	1038/62	1038/62
16-users expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17	1 x 1038/17
Camera	725/600	725/600	725/600	725/600
Front unit	725/602	725/602	725/602	725/602
Push-button panel	725/212	725/214	725/216	725/218
(*) Flush mounting frame	725/71	725/72	725/73	725/74
(*) Hood	725/702	725/702	725/702	725/702

	20	22	24	26
Door unit with digitiser	1038/62	1038/62	1038/62	1038/62
16-users expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17	2 x 1038/17
Camera	725/600	725/600	725/600	725/600
Front unit	725/602	725/602	725/602	725/602
Push-button panel	725/220	725/222	725/224	725/226
(*) Flush mounting frame	-	-	-	-
(*) Hood	725/702	725/702	725/702	725/702

CAMERA UNIT Mod. 725
VIDEO DOOR PHONE SYSTEMS

MODULAR EXAMPLES FOR VARIOUS CAPACITIES

(∗): in alternatives

	28	30	34
Door unit with digitiser	1038/62	1038/62	1038/62
16-users expansion module	2 x 1038/17	2 x 1038/17	2 x 1038/17
Camera	725/600	725/600	725/600
Front unit	725/602	725/602	725/602
Push-button panel	725/228	1 x 725/206 - 1 x 725/024	1 x 725/208 - 1 x 725/026
(∗) Flush mounting frame	-	-	-
(∗) Hood	725/702	-	-

	38	42	46
Door unit with digitiser	1038/62	1038/62	1038/62
16-users expansion module	2 x 1038/17	3 x 1038/17	3 x 1038/17
Camera	725/600	725/600	725/600
Front unit	725/602	725/602	725/602
Push-button panel	1 x 725/210 - 1 x 725/028	1 x 725/212 - 1 x 725/030	1 x 725/214 - 1 x 725/032
(∗) Flush mounting frame	-	-	-
(∗) Hood	-	-	-

	50	54	60
Door unit with digitiser	1038/62	1038/62	1038/62
16-users expansion module	3 x 1038/17	3 x 1038/17	4 x 1038/17
Camera	725/600	725/600	725/600
Front unit	725/602	725/602	725/602
Push-button panel	1 x 725/216 - 1 x 725/034	1 x 725/206 - 2 x 725/024	1 x 725/208 - 2 x 725/026
(∗) Flush mounting frame	-	-	-
(∗) Hood	-	-	-

(*): in alternatives

		66	72
	Door unit with digitiser	1038/62	1038/62
	16-users expansion module	4 x 1038/17	4 x 1038/17
	Camera	725/600	725/600
	Front unit	725/602	725/602
	Push-button panel	1 x 725/210 - 2 x 725/028	1 x 725/212 - 2 x 725/030
	(*) Flush mounting frame	-	-
	(*) Hood	-	-

		78	84
	Door unit with digitiser	1038/62	1038/62
	16-users expansion module	5 x 1038/17	5 x 1038/17
	Camera	725/600	725/600
	Front unit	725/602	725/602
	Push-button panel	1 x 725/214 - 2 x 725/032	1 x 725/216 - 2 x 725/034
	(*) Flush mounting frame	-	-
	(*) Hood	-	-

KOMBI PUSH BUTTON PANEL

The system is based on extruded aluminum modules that can be fitted on special frames complete with embedding box. The embedding boxes can be coupled horizontally by means of plastic spacers; through this system it is possible to compose push button panels for all types and configurations, with the smallest number of components, hence less need for stock management; thus, the advantage is reflected on the wholesaler and on the installer.

CONFIGURATION

The system may be used in the following versions:
- **wall embedding;**
- **wall surface mounting.**

The system is made of the following units:
- **modules;**
- **module frames complete with embedding boxes;**
- **accessories.**

PRODUCT LIST

Modules arranged for loudspeaking unit

Without buttons for 1+1 systems	**Ref. 825/15**
With 1 button for 1+1 systems	**Ref. 825/16**
With 2 buttons for 1+1 systems	**Ref. 825/17**

Push button modules and repertory modules

With 1 metallic button	**Ref. 825/201**
With 2 metallic buttons	**Ref. 825/202**
With 3 metallic buttons	**Ref. 825/203**
With 4 metallic buttons	**Ref. 825/204**
Repertory module	**Ref. 825/5**
Blank module	**Ref. 825/9**
Repertory module for 2 to 16 names	**Ref. 825/550**

Module frames complete with embedding box

For 1 module Kombi	**Ref. 825/21**
For 2 modules Kombi	**Ref. 825/22**
For 3 modules Kombi	**Ref. 825/23**
For 4 modules Kombi	**Ref. 825/24**

Wall cover frame

For 1 module Kombi	**Ref. 825/31**
For 2 modules Kombi, 1 row	**Ref. 825/32**
For 3 modules Kombi, 1 row	**Ref. 825/33**
For 4 modules Kombi, 1 row	**Ref. 825/404**
For 4 modules Kombi, 2 rows	**Ref. 825/34**
For 6 modules Kombi, 2 rows	**Ref. 825/36**
For 8 modules Kombi, 2 rows	**Ref. 825/408**
For 9 modules Kombi, 3 rows	**Ref. 825/39**
For 12 modules Kombi, 3 rows	**Ref. 825/412**

Rain hood with wall cover frame

For 1 module Kombi	**Ref. 825/41**
For 2 modules Kombi, 1 row	**Ref. 825/42**
For 3 modules Kombi, 1 row	**Ref. 825/43**
For 4 modules Kombi, 1 row	**Ref. 825/441**
For 4 modules Kombi, 2 rows	**Ref. 825/44**
For 6 modules Kombi, 2 rows	**Ref. 825/46**
For 8 modules Kombi, 2 rows	**Ref. 825/442**
For 9 modules Kombi, 3 rows	**Ref. 825/49**
For 12 modules Kombi, 3 rows	**Ref. 825/443**

Case and hood with frame and module holder

For 1 module Kombi	**Ref. 825/51**
For 2 modules Kombi, 1 row	**Ref. 825/52**
For 3 modules Kombi, 1 row	**Ref. 825/53**
For 4 modules Kombi, 1 row	**Ref. 825/541**
For 4 modules Kombi, 2 rows	**Ref. 825/54**
For 6 modules Kombi, 2 rows	**Ref. 825/56**
For 8 modules Kombi, 2 rows	**Ref. 825/542**
For 9 modules Kombi, 3 rows	**Ref. 825/59**
For 12 modules Kombi, 3 rows	**Ref. 825/543**

Kombi camera unit module with adjustable CCD camera

at 50 Hz	**Ref. 825/70**
at 60 Hz	**Ref. 825/79**

DOOR CAMERA MODULE FOR KOMBI ENTRANCE PANELS Ref. 825/70-/79

The following door camera modules can be used to set up a Digivoice video doorphone system:

- Ref. 825/70 for 50 Hz mains frequency
- Ref. 825/79 for 60 Hz mains frequency

FEATURES

The door camera module provides the following features:

- CCD camera with incorporated optics and fixed focus lens.
- Infrared LED illuminators.
- Lens position adjustable both vertically and horizontally.

TERMINAL DESIGNATIONS

+TC	Camera power supply positive input
R1	Camera power supply negative input
V5	Video signal ground (braid shield)
V3	Video signal output (coax)

DIMENSIONS

FLUSH MOUNTED

45 mm

45 mm 118 mm 244 mm 370 mm

H1 204 / 294 / 384 mm

126 mm 252 mm 378 mm

H2 213 / 303 / 393 mm

Note: H1= 204, 294, 384 indicates flush mounting height and H2= 213, 303, 393 indicates to total height relative to 2, 3, and 4 module versions.

WALL MOUNTED

158 mm 79 mm 287 mm 79 mm 416 mm 79 mm

H3 241 / 331 / 421 mm

59 mm 59 mm 59 mm

Note: H3= 241, 331, 421 indicates to total height relative to 2, 3, and 4 module versions.

MODULAR EXAMPLES FOR VARIOUS CAPACITIES

(*): alternatives:
flush mounting box,
flush mounting box and frame
flush mounting box and hood

			1		2		3	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	Door unit modules		825/16		825/17		825/15	
	Button modules	Repertory module	-	-	-	-	825/203	-
	16-users expansion module		-		-		-	
FLUSH MOUNTED	Flush mounting box with module holder frames		825/22		825/22		825/23	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/32		825/32		825/33	
	Waterproof hood with wall cover frame		825/42		825/42		825/43	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/52		825/52		825/53	

			4		5		6	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	Door unit modules		825/15		825/16		825/17	
	Button modules	Repertory module	825/204	-	825/204	-	825/204	-
	16-users expansion module		-		-		-	
FLUSH MOUNTED	Flush mounting box with module holder frames		825/23		825/23		825/23	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/33		825/33		825/33	
	Waterproof hood with wall cover frame		825/43		825/43		825/43	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/53		825/53		825/53	

			7		8		9	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	Door unit modules		825/15		825/15		825/16	
	Button modules	Repertory module	1 x 825/203 - 1 x 825/204	-	2 x 825/204	-	2 x 825/204	-
	16-users expansion module		-		-		1 x 1038/17	
FLUSH MOUNTED	Flush mounting box with module holder frames		825/24		825/24		825/24	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/404		825/404		825/404	
	Waterproof hood with wall cover frame		825/441		825/441		825/441	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/541		825/541		825/541	

DIGIVOICE

KOMBI PUSH-BUTTON PANEL Mod. 825
DOOR PHONE SYSTEMS

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MODULAR EXAMPLES FOR VARIOUS CAPACITIES

(∗): alternatives:
flush mounting box,
flush mounting box and frame
flush mounting box and hood

			10		7		8	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	Door unit modules		825/17		825/15		825/15	
	Button modules	Repertory module	2 x 825/204	-	1 x 825/203 - 1 x 825/204	-	2 x 825/204	-
	16-users expansion module		1 x 1038/17		-		-	
FLUSH MOUNTED	Flush mounting box with module holder frames		825/24		2 x 825/22		2 x 825/22	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/404		825/34		825/34	
	Waterproof hood with wall cover frame		825/441		825/44		825/44	
WALL MOUNTED	(∗) Casing and hood with frame and module holders		825/541		825/54		825/54	

			9		10		11	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	Door unit modules		825/16		825/17		825/15	
	Button modules	Repertory module	2 x 825/204	-	2 x 825/204	-	1 x 825/203 - 2 x 825/204	825/5
	16-users expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17	
FLUSH MOUNTED	Flush mounting box with module holder frames		2 x 825/22		2 x 825/22		2 x 825/23	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/34		825/34		825/36	
	Waterproof hood with wall cover frame		825/44		825/44		825/46	
WALL MOUNTED	(∗) Casing and hood with frame and module holders		825/54		825/54		825/56	

			12		13		14	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	Door unit modules		825/15		825/16		825/17	
	Button modules	Repertory module	3 x 825/204	825/5	3 x 825/204	825/5	3 x 825/204	825/5
	16-users expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17	
FLUSH MOUNTED	Flush mounting box with module holder frames		2 x 825/23		2 x 825/23		2 x 825/23	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/36		825/36		825/36	
	Waterproof hood with wall cover frame		825/46		825/46		825/46	
WALL MOUNTED	(∗) Casing and hood with frame and module holders		825/56		825/56		825/56	

KOMBI PUSH-BUTTON PANEL Mod. 825
DOOR PHONE SYSTEMS

MODULAR EXAMPLES FOR VARIOUS CAPACITIES

(∗): alternatives:
flush mounting box,
flush mounting box and frame
flush mounting box and hood

			15		16		17	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	Door unit modules		825/15		825/15		825/16	
	Button modules	Repertory module	1 x 825/203 - 3 x 825/204	-	4 x 825/204	-	4 x 825/204	-
	16-users expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17	
FLUSH MOUNTED	Flush mounting box with module holder frames		2 x 825/23		2 x 825/23		2 x 825/23	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/36		825/36		825/36	
	Waterproof hood with wall cover frame		825/46		825/46		825/46	
WALL MOUNTED	(∗) Casing and hood with frame and module holders		825/56		825/56		825/56	

			18		20		21	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	Door unit modules		825/17		825/15		825/16	
	Button modules	Repertory module	4 x 825/204	-	5 x 825/204	825/5	5 x 825/204	825/5
	16-users expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17	
FLUSH MOUNTED	Flush mounting box with module holder frames		2 x 825/23		2 x 825/24		2 x 825/24	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/36		825/408		825/408	
	Waterproof hood with wall cover frame		825/46		825/442		825/442	
WALL MOUNTED	(∗) Casing and hood with frame and module holders		825/56		825/542		825/542	

			22		23		24	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	Door unit modules		825/17		825/15		825/15	
	Button modules	Repertory module	5 x 825/204	825/5	1 x 825/203 - 5 x 825/204	-	6 x 825/204	-
	16-users expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17	
FLUSH MOUNTED	Flush mounting box with module holder frames		2 x 825/24		2 x 825/24		2 x 825/24	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/408		825/408		825/408	
	Waterproof hood with wall cover frame		825/442		825/442		825/442	
WALL MOUNTED	(∗) Casing and hood with frame and module holders		825/542		825/542		825/542	

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KOMBI PUSH-BUTTON PANEL Mod. 825
DOOR PHONE SYSTEMS

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MODULAR EXAMPLES FOR VARIOUS CAPACITIES

(*): alternatives:
flush mounting box,
flush mounting box and frame
flush mounting box and hood

			25		26		19	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	Door unit modules		825/16		825/17		825/15	
	Button modules	Repertory module	6 x 825/204	-	6 x 825/204	-	5 x 825/203 - 1 x 825/204	825/5
	16-users expansion module		2 x 1038/17		2 x 1038/17		1 x 1038/17	
FLUSH MOUNTED	Flush mounting box with module holder frames		2 x 825/24		2 x 825/24		3 x 825/23	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/408		825/408		825/39	
	Waterproof hood with wall cover frame		825/442		825/442		825/49	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/542		825/542		825/59	

			20		21		22	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	Door unit modules		825/15		825/15		825/15	
	Button modules	Repertory module	4 x 825/203 - 2 x 825/204	825/5	3 x 825/203 - 3 x 825/204	825/5	2 x 825/203 - 4 x 825/204	825/5
	16-users expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17	
FLUSH MOUNTED	Flush mounting box with module holder frames		3 x 825/23		3 x 825/23		3 x 825/23	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/39		825/39		825/39	
	Waterproof hood with wall cover frame		825/49		825/49		825/49	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/59		825/59		825/59	

			23		24		25	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	Door unit modules		825/15		825/15		825/16	
	Button modules	Repertory module	1 x 825/203 - 5 x 825/204	825/5	6 x 825/204	825/5	6 x 825/204	825/5
	16-users expansion module		1 x 1038/17		1 x 1038/17		2 x 1038/17	
FLUSH MOUNTED	Flush mounting box with module holder frames		3 x 825/23		3 x 825/23		3 x 825/23	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/39		825/39		825/39	
	Waterproof hood with wall cover frame		825/49		825/49		825/49	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/59		825/59		825/59	

MODULAR EXAMPLES FOR VARIOUS CAPACITIES

(*): alternatives:
flush mounting box,
flush mounting box and frame
flush mounting box and hood

			26		27		28	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	Door unit modules		825/17		825/15		825/15	
	Button modules	Repertory module	6 x 825/204	825/5	1 x 825/203 - 6 x 825/204	-	7 x 825/204	-
	16-users expansion module		2 x 1038/17		2 x 1038/17		2 x 1038/17	
FLUSH MOUNTED	Flush mounting box with module holder frames		3 x 825/23		3 x 825/23		3 x 825/23	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/39		825/39		825/39	
	Waterproof hood with wall cover frame		825/49		825/49		825/49	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/59		825/59		825/59	

			29		30		36	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	Door unit modules		825/16		825/17		825/15	
	Button modules	Repertory module	7 x 825/204	-	7 x 825/204	-	9 x 825/204	825/5
	16-users expansion module		2 x 1038/17		2 x 1038/17		2 x 1038/17	
FLUSH MOUNTED	Flush mounting box with module holder frames		3 x 825/23		3 x 825/23		3 x 825/24	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/39		825/39		825/412	
	Waterproof hood with wall cover frame		825/49		825/49		825/443	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/59		825/59		825/543	

			38		40		42	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	Door unit modules		825/17		825/15		825/17	
	Button modules	Repertory module	9 x 825/204	825/5	10 x 825/204	-	10 x 825/204	-
	16-users expansion module		2 x 1038/17		2 x 1038/17		3 x 1038/17	
FLUSH MOUNTED	Flush mounting box with module holder frames		3 x 825/24		3 x 825/24		3 x 825/24	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/412		825/412		825/412	
	Waterproof hood with wall cover frame		825/443		825/443		825/443	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/543		825/543		825/543	

DIGIVOICE

KOMBI CAMERA UNIT Mod. 825
VIDEO DOOR PHONE SYSTEMS

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MODULAR EXAMPLES FOR VARIOUS CAPACITIES

(*): alternatives:
flush mounting box,
flush mounting box and frame
flush mounting box and hood

			1		2		3	
	Camera unit module		825/70		825/70		825/70	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	16-users expansion module		-		-		-	
	Door unit module		825/16		825/17		825/15	
	Button modules	Repertory module	-	-	-	-	825/203	-
FLUSH MOUNTED	Flush mounting box with module holder frames		825/23		825/23		825/24	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/33		825/33		825/404	
	Waterproof hood with wall cover frame		825/43		825/43		825/441	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/53		825/53		825/541	

			4		5		6	
	Camera unit module		825/70		825/70		825/70	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	16-users expansion module		-		-		-	
	Door unit module		825/15		825/16		825/17	
	Button modules	Repertory module	825/204	-	825/204	-	825/204	-
FLUSH MOUNTED	Flush mounting box with module holder frames		825/24		825/24		825/24	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/404		825/404		825/404	
	Waterproof hood with wall cover frame		825/441		825/441		825/441	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/541		825/541		825/541	

			3		4		5	
	Camera unit module		825/70		825/70		825/70	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	16-users expansion module		-		-		-	
	Door unit module		825/15		825/15		825/16	
	Button modules	Repertory module	825/203	-	825/204	-	825/204	-
FLUSH MOUNTED	Flush mounting box with module holder frames		2 x 825/22		2 x 825/22		2 x 825/22	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/34		825/34		825/34	
	Waterproof hood with wall cover frame		825/44		825/44		825/44	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/54		825/54		825/54	

MODULAR EXAMPLES FOR VARIOUS CAPACITIES

(*): alternatives:
flush mounting box,
flush mounting box and frame
flush mounting box and hood

			6		7		8	
	Camera unit module		825/70		825/70		825/70	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	16-users expansion module		-		-		-	
	Door unit module		825/17		825/15		825/15	
	Button modules	Repertory module	825/204	-	1 x 825/203 - 1 x 824/204	825/5	2 x 825/204	825/5
FLUSH MOUNTED	Flush mounting box with module holder frames		2 x 825/22		2 x 825/23		2 x 825/23	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/34		825/36		825/36	
	Waterproof hood with wall cover frame		825/44		825/46		825/46	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/54		825/56		825/56	

			9		10		11	
	Camera unit module		825/70		825/70		825/70	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	16-users expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17	
	Door unit module		825/16		825/17		825/15	
	Button modules	Repertory module	2 x 825/204	825/5	2 x 825/204	825/5	2 x 825/204 - 1 x 825/203	-
FLUSH MOUNTED	Flush mounting box with module holder frames		2 x 825/23		2 x 825/23		2 x 825/23	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/36		825/36		825/36	
	Waterproof hood with wall cover frame		825/46		825/46		825/46	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/56		825/56		825/56	

			12		13		14	
	Camera unit module		825/70		825/70		825/70	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	16-users expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17	
	Door unit module		825/15		825/16		825/17	
	Button modules	Repertory module	3 x 825/204	-	3 x 825/204	-	3 x 825/204	-
FLUSH MOUNTED	Flush mounting box with module holder frames		2 x 825/23		2 x 825/23		2 x 825/23	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/36		825/36		825/36	
	Waterproof hood with wall cover frame		825/46		825/46		825/46	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/56		825/56		825/56	

DIGIVOICE

KOMBI CAMERA UNIT Mod. 825
VIDEO DOOR PHONE SYSTEMS

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MODULAR EXAMPLES FOR VARIOUS CAPACITIES

(*): alternatives:
flush mounting box,
flush mounting box and frame
flush mounting box and hood

			15		16		17	
	Camera unit module		825/70		825/70		825/70	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	16-users expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17	
	Door unit module		825/15		825/15		825/16	
	Button modules	Repertory module	3 x 825/204 - 1 x 825/203	825/5	4 x 824/204	825/5	4 x 825/204	825/5
FLUSH MOUNTED	Flush mounting box with module holder frames		2 x 825/24		2 x 825/24		2 x 825/24	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/408		825/408		825/408	
	Waterproof hood with wall cover frame		825/442		825/442		825/442	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/542		825/542		825/542	

			18		19		20	
	Camera unit module		825/70		825/70		825/70	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	16-users expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17	
	Door unit module		825/17		825/15		825/15	
	Button modules	Repertory module	4 x 825/204	825/5	4 x 825/204 - 1 x 825/203	-	5 x 825/204	-
FLUSH MOUNTED	Flush mounting box with module holder frames		2 x 825/24		2 x 825/24		2 x 825/24	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/408		825/408		825/408	
	Waterproof hood with wall cover frame		825/442		825/442		825/442	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/542		825/542		825/542	

			21		22		23	
	Camera unit module		825/70		825/70		825/70	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	16-users expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17	
	Door unit module		825/16		825/17		825/15	
	Button modules	Repertory module	5 x 825/204	-	5 x 825/204	-	5 x 825/204 - 1 x 825/203	-
FLUSH MOUNTED	Flush mounting box with module holder frames		2 x 825/24		2 x 825/24		3 x 825/23	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/408		825/408		825/39	
	Waterproof hood with wall cover frame		825/442		825/442		825/49	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/542		825/542		825/59	

MODULAR EXAMPLES FOR VARIOUS CAPACITIES

(*): alternatives:
flush mounting box,
flush mounting box and frame
flush mounting box and hood

			24		25		26	
	Camera unit module		825/70		825/70		825/70	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	16-users expansion module		1 x 1038/17		2 x 1038/17		2 x 1038/17	
	Door unit module		825/15		825/16		825/17	
	Button modules	Repertory module	6 x 825/204	-	6 x 824/204	-	6 x 825/204	-
FLUSH MOUNTED	Flush mounting box with module holder frames		3 x 825/23		3 x 825/23		3 x 825/23	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/39		825/39		825/39	
	Waterproof hood with wall cover frame		825/49		825/49		825/49	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/59		825/59		825/59	

			32		34		35	
	Camera unit module		825/70		825/70		825/70	
	Door unit with digitiser		1038/62		1038/62		1038/62	
	16-users expansion module		2 x 1038/17		2 x 1038/17		2 x 1038/17	
	Door unit module		825/15		825/17		825/15	
	Button modules	Repertory module	8 x 825/204	825/5	8 x 825/204	825/5	1 x 825/203 - 8 x 825/204	-
FLUSH MOUNTED	Flush mounting box with module holder frames		3 x 825/24		3 x 825/24		3 x 825/24	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/412		825/412		825/412	
	Waterproof hood with wall cover frame		825/443		825/443		825/443	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/543		825/543		825/543	

			36		38	
	Camera unit module		825/70		825/70	
	Door unit with digitiser		1038/62		1038/62	
	16-users expansion module		2 x 1038/17		2 x 1038/17	
	Door unit module		825/15		825/17	
	Button modules	Repertory module	9 x 825/204		9 x 825/204	
FLUSH MOUNTED	Flush mounting box with module holder frames		3 x 825/24		3 x 825/24	
ACCESSORIES FLUSH MOUNTED	Frame and wall cover		825/412		825/412	
	Waterproof hood with wall cover frame		825/443		825/443	
WALL MOUNTED	(*) Casing and hood with frame and module holders		825/543		825/543	

DIGIVOICE

DOMUS-AURA ARTISTIC 2-ROW PUSH-BUTTON PANEL Mod. 1110 (door phone) AND Mod. 1710 (video door phone)
ADJUSTABLE CCD CAMERA UNIT FOR ARTISTIC PUSH-BUTTON PANELS Ref. 1810/70

urmet DOMUS

DOMUS-AURA ARTISTIC 2-ROW PUSH-BUTTON PANEL Mod. 1110 (door phone) AND Mod. 1710 (video door phone)

Domus Aura artistic push-button panels combine elegant design and top quality materials. The front plate is made of “super mirror” finish stainless steel. The frames, buttons and name tags and made of ion-treated brass (PVD) to prevent oxidation and make the device weatherproof.
The pushbuttons panels are available with 4 to 20 buttons on two rows.
All versions are complete with:

- Flush mounting box with green LED diode name tag lights.
- Brass and temporary name tags.
- Tamperproof screws and screwdriver.

IMPORTANT: CLEAN WITH A DRY, SOFT CLOTH. DO NOT USE BRASS POLISH.

FLUSH MOUNTING BOX POSITIONING AND ASSEMBLY

1,60 ÷ 1,65 m

Apply adhesive labels to protect the front panel fastening holes during the embedding operation.

max
3 mm.

The wall surface must be flat.
Maximum permitted tolerance = 1.5 mm

ADJUSTABLE CCD CAMERA UNIT FOR ARTISTIC PUSH-BUTTON PANELS Ref. 1810/70

PERFORMANCE

Characteristics of the device are:

- fixed focus CCD camera with built-in optics and lens;
- subject lighting using infrared LED diodes;
- possibility of adjusting camera lens vertically and horizontally.

TERMINAL DESIGNATIONS

+TC	camera power supply positive input
R1	camera power supply negative input
V5	Video signal ground (braid shield)
V3	Video signal output (coax)

DOOR PHONE PUSH-BUTTON PANEL

CODE	DESCRIPTION	Front dimensions (mm)		Flush mounting box dimensions (mm)		
	Artistic door phone push-button panel	Width	Height	Width	Height	Depth
	Number of buttons	L1	H1	L2	H2	P2
1110/204	4	216	292	186	228	55
1110/206	6					
1110/208	8		348		284	
1110/210	10					
1110/212	12		376		312	
1110/214	14		404		340	
1110/216	16		432		368	
1110/218	18		460		396	
1110/220	20		488		424	

H1 L1 H2 L2 P2

VIDEO DOOR PHONE PUSH-BUTTON PANEL

CODE	DESCRIPTION	Front dimensions (mm)		Flush mounting box dimensions (mm)		
	Artistic door phone push-button panel	Width	Height	Width	Height	Depth
	Number of buttons	L1	H1	L2	H2	P2
1710/204	4	216	376	186	312	55
1710/206	6		404		340	
1710/208	8		432		368	
1710/210	10		460		396	
1710/212	12		488		424	
1710/214	14		516		452	
1710/216	16		544		480	
1710/218	18		572		508	
1710/220	20		600		536	

H1 L1 H2 L2 P2

DIGIVOICE

2-ROW DOMUS-AURA PUSH-BUTTON PANEL
DOOR PHONE SYSTEMS

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MODULAR EXAMPLES FOR VARIOUS CAPACITIES

	4	6	8
Door unit with digitiser	1038/62	1038/62	1038/62
16-users expansion module	-	-	-
Door unit push-button panel set-up	1110/204	1110/206	1110/208

	10	12	14
Door unit with digitiser	1038/62	1038/62	1038/62
16-users expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17
Door unit push-button panel set-up	1110/210	1110/212	1110/214

	16	18	20
Door unit with digitiser	1038/62	1038/62	1038/62
16-users expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17
Door unit push-button panel set-up	1110/216	1110/218	1110/220

2-ROW DOMUS-AURA PUSH-BUTTON PANEL
VIDEO DOOR PHONE SYSTEMS

MODULAR EXAMPLES FOR VARIOUS CAPACITIES

		4	6	8
	TV Camera unit	1810/70	1810/70	1810/70
	Door unit with digitiser	1038/62	1038/62	1038/62
	16-users expansion module	-	-	-
	Door unit push-button panel set-up	1710/201	1710/206	1710/208

		10	12	14
	TV Camera unit	1810/70	1810/70	1810/70
	Door unit with digitiser	1038/62	1038/62	1038/62
	16-users expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17
	Door unit push-button panel set-up	1710/210	1710/212	1710/214

		16	18	20
	TV Camera unit	1810/70	1810/70	1810/70
	Door unit with digitiser	1038/62	1038/62	1038/62
	16-users expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17
	Door unit push-button panel set-up	1710/216	1710/218	1710/220

K-STEEL MODULAR VANDAL-PROOF PANEL Mod. 1155 - Mod. 1755

m = 1,55 ÷ 1,60

INSTALLATION

1 Refer the protections from the hole to be used to pass the wires only from the flush-mounting box (see figure below).
2 Flush the box and the required height considering the direction and the indications provided for video systems.
3 Fit the flush mounting box in line with the wall: it must not project.
4 The wall surface on which the front rests must be as smooth as possible (max. tolerance 1.5 mm).

max. 6 mm

Warning: During installation, protect all parts which will be exposed to view from mortar, plaster and cement.
Never use abrasive detergents to clean units.

JOINING FLUSH-MOUNTING BOXES

The flush-mounting joining kit Ref. 1155/54 consists of the following parts:
1 mobile crossing plate
1 fixed crossing plate
1 horizontal protection crosspiece
1 protection 2-module crosspiece
1 protection 3-module crosspiece
1 sliding hinge
1 screw cap
2 fairlead shims
1 frame alignment shim
4 M4 x 16 galvanised screws for frame

This product may be used to install flush-mounting boxes horizontally and vertically side by side as shown below:
1 Fit the flush-mounting boxes by means of the shims provided through which the system connection wires may be passed.
2 Insert crossing plate provided in the middle of with the assembled boxes.
3 Insert the protective crosspieces between the flush-mounting boxes.
4 Use frame alignment shim as shown in the figure for correct alignment of modules.

1
2
3

PRODUCT LIST

Flush mounting back boxes with module housing

For 1 module	**Ref. 1155/61**
For 2 modules	**Ref. 1155/62**
For 3 modules	**Ref. 1155/63**

Push button modules

With 1 call-button without door unit	**Ref. 1155/11**
With 2 call-buttons without door unit	**Ref. 1155/12**
With 3 call-buttons without door unit	**Ref. 1155/13**
With 4 call-buttons without door unit	**Ref. 1155/14**

Special modules

Repertory	**Ref. 1155/50**
Blanc module	**Ref. 1155/59**

Frames

Frame for 1 module, colour bright PVD	**Ref. 1155/84**
Frame for 2 modules, colour bright PVD	**Ref. 1155/85**
Frame for 3 modules, colour bright PVD	**Ref. 1155/86**
Frame for 1 module, colour blue	**Ref. 1155/87**
Frame for 2 modules, colour blue	**Ref. 1155/88**
Frame for 3 modules, colour blue	**Ref. 1155/89**
Frame for 1 module, colour glazed inox	**Ref. 1155/91**
Frame for 2 modules, colour glazed inox	**Ref. 1155/92**
Frame for 3 modules, colour glazed inox	**Ref. 1155/93**

Accessories

Kit for joining flush-mounting boxes	**Ref. 1155/54**

DOOR CAMERA MODULES FOR K-STEEL ARMORED ENTRANCE PANELS Ref. 1755/70-/79

The following door camera modules can be used to set up a Digivoice video doorphone system:
Coaxial cable version:
- w/o speaker unit, Ref. 1755/70
- w/o speaker unit (60Hz), Ref. 1755/79

FEATURES

The door camera module provides the following features:
- CCD camera with incorporated optics and fixed focus lens.
- Infrared LED illuminators.
- Lens position adjustable both vertically and horizontally.
- Removable terminal block.

TERMINAL DESIGNATIONS

+TC	Camera power supply positive input
R1	Camera power supply negative input
V5	Video signal ground (braid shield)
V3	Video signal output (coax)
~0, ~12	Anti-fogging circuit power supply terminals

K-STEEL MODULAR VANDAL-PROOF PANEL Mod. 1155- Mod. 1755

DOOR PHONE SYSTEMS - VIDEO DOOR PHONE SYSTEMS

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DIMENSIONS

138 mm

287 mm

435 mm

H1 139 / 256 / 376 / 522 mm

148 mm

296 mm

444 mm

H2 148 / 266 / 384 / 532 mm

Note: H1= 139, 256, 376, 522 indicates flush mounting height and H2= 148, 266, 384, 532 indicates to total height relative to 1, 2, 3 and 4 module versions.

139 mm

138 mm

55 mm

MODULAR EXAMPLES FOR VARIOUS CAPACITIES

		1÷2		3		4		5	
Door unit with digitiser		1038/5		1038/5		1038/5		1038/5	
16-users expansion module		-		-		-		-	
Flush mount. back boxes with mod. housing		1155/61		1155/62		1155/62		1155/62	
Push button modules		-		1155/11		1155/12		1155/13	
Frames		1155/91 (•)		1155/92 (♦)		1155/92 (♦)		1155/92 (♦)	
Blanc module	Repertory module	-	-	-	-	-	-	-	-

		6		7		8		9	
Door unit with digitiser		1038/5		1038/5		1038/5		1038/5	
16-users expansion module		-		-		-		1 x 1038/17	
Flush mount. back boxes with mod. housing		1155/62		1155/63		1155/63		1155/63	
Push button modules		1155/14		1 x 1155/11 - 1 x 1155/14		1 x 1155/12 - 1 x 1155/14		1 x 1155/13 - 1 x 1155/14	
Frames		1155/92 (♦)		1155/93 (*)		1155/93 (*)		1155/93 (*)	
Blanc module	Repertory module	-	-	-	-	-	-	-	-

		10		11		12		13	
Door unit with digitiser		1038/5		1038/5		1038/5		1038/5	
16-users expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17		1 x 1038/17	
Flush mount. back boxes with mod. housing		1155/63		2 x 1155/62		2 x 1155/62		2 x 1155/62	
Push button modules		2 x 1155/14		1 x 1155/11 - 2 x 1155/14		1 x 1155/12 - 2 x 1155/14		1 x 1155/13 - 2 x 1155/14	
Frames		1155/93 (*)		2 x 1155/92 (♦)		2 x 1155/92 (♦)		2 x 1155/92 (♦)	
Blanc module	Repertory module	-	-	-	-	-	-	-	-

(•) alternatives **1155/84 - 1155/87**
(♦) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**

MODULAR EXAMPLES FOR VARIOUS CAPACITIES

		14		11		12		13	
Door unit with digitiser		1038/5		1038/5		1038/5		1038/5	
16-users expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17		1 x 1038/17	
Flush mount. back boxes with mod. housing		2 x 1155/62		2 x 1155/62		2 x 1155/62		2 x 1155/62	
Push button modules		3 x 1155/14		1 x 1155/11 - 2 x 1155/14		1 x 1155/12 - 2 x 1155/14		1 x 1155/13 - 2 x 1155/14	
Frames		2 x 1155/92 (♦)		2 x 1155/92 (♦)		2 x 1155/92 (♦)		2 x 1155/92 (♦)	
Blanc module	Repertory module	-	-	-	-	-	-	-	-

		14		15		16		17	
Door unit with digitiser		1038/5		1038/5		1038/5		1038/5	
16-users expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17		1 x 1038/17	
Flush mount. back boxes with mod. housing		2 x 1155/62		2 x 1155/63		2 x 1155/63		2 x 1155/63	
Push button modules		3 x 1155/14		1 x 1155/11 - 3 x 1155/14		1 x 1155/12 - 3 x 1155/14		1 x 1155/13 - 3 x 1155/14	
Frames		2 x 1155/92 (♦)		2 x 1155/93 (*)		2 x 1155/93 (*)		2 x 1155/93 (*)	
Blanc module	Repertory module	-	-	-	1155/50	-	1155/50	-	1155/50

		18		19		20		21	
Door unit with digitiser		1038/5		1038/5		1038/5		1038/5	
16-users expansion module		1 x 1038/17		1 x 1038/17		1 x 1038/17		1 x 1038/17	
Flush mount. back boxes with mod. housing		2 x 1155/63		2 x 1155/63		2 x 1155/63		2 x 1155/63	
Push button modules		4 x 1155/14		1 x 1155/11 - 4 x 1155/14		1 x 1155/12 - 4 x 1155/14		1 x 1155/13 - 4 x 1155/14	
Frames		2 x 1155/93 (*)		2 x 1155/93 (*)		2 x 1155/93 (*)		2 x 1155/93 (*)	
Blanc module	Repertory module	-	1155/50	-	-	-	-	-	-

(•) alternatives **1155/84 - 1155/87**
(♦) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**

MODULAR EXAMPLES FOR VARIOUS CAPACITIES

		22		24		25		26	
Door unit with digitiser		1038/5		1038/5		1038/5		1038/5	
16-users expansion module		1 x 1038/17		1 x 1038/17		2 x 1038/17		2 x 1038/17	
Flush mount. back boxes with mod. housing		2 x 1155/63		4 x 1155/62		4 x 1155/62		4 x 1155/62	
Push button modules		5 x 1155/14		1 x 1155/12 - 5 x 1155/14		1 x 1155/13 - 5 x 1155/14		6 x 1155/14	
Frames		2 x 1155/93 (*)		4 x 1155/92 (♦)		4 x 1155/92 (♦)		4 x 1155/92 (♦)	
Blanc module	Repertory module	-	-	-	1155/50	-	1155/50	-	1155/50
Kit for joining flush-mounting boxes		-		1 x 1155/54		1 x 1155/54		1 x 1155/54	

		28		29		30	
Door unit with digitiser		1038/5		1038/5		1038/5	
16-users expansion module		2 x 1038/17		2 x 1038/17		2 x 1038/17	
Flush mount. back boxes with mod. housing		4 x 1155/62		4 x 1155/62		4 x 1155/62	
Push button modules		1 x 1155/12 - 6 x 1155/14		1 x 1155/13 - 6 x 1155/14		7 x 1155/14	
Frames		4 x 1155/92 (♦)		4 x 1155/92 (♦)		4 x 1155/92 (♦)	
Blanc module	Repertory module	-	-	-	-	-	-
Kit for joining flush-mounting boxes		1 x 1155/54		1 x 1155/54		1 x 1155/54	

		23		24		25	
Door unit with digitiser		1038/5		1038/5		1038/5	
16-users expansion module		1 x 1038/17		1 x 1038/17		2 x 1038/17	
Flush mount. back boxes with mod. housing		3 x 1155/63		3 x 1155/63		3 x 1155/63	
Push button modules		1 x 1155/12 - 1 x 1155/13 - 4 x 1155/14		2 x 1155/13 - 4 x 1155/14		1 x 1155/13 - 5 x 1155/14	
Frames		3 x 1155/93 (*)		3 x 1155/93 (*)		3 x 1155/93 (*)	
Blanc module	Repertory module	1155/59	1155/50	1155/59	1155/50	1155/59	1155/50
Kit for joining flush-mounting boxes		-		-		-	

(•) alternatives **1155/84 - 1155/87**
(♦) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**

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K-STEEL MODULAR VANDAL-PROOF PANEL Mod. 1155- Mod. 1755
DOOR PHONE SYSTEMS

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MODULAR EXAMPLES FOR VARIOUS CAPACITIES

		26		27		28	
Door unit with digitiser		1038/5		1038/5		1038/5	
16-users expansion module		2 x 1038/17		2 x 1038/17		2 x 1038/17	
Flush mount. back boxes with mod. housing		3 x 1155/63		3 x 1155/63		3 x 1155/63	
Push button modules		6 x 1155/14		1 x 1155/11 - 6 x 1155/14		1 x 1155/12 - 6 x 1155/14	
Frames		3 x 1155/93 (*)		3 x 1155/93 (*)		3 x 1155/93 (*)	
Blanc module	Repertory module	1155/59	1155/50	-	1155/50	-	1155/50
Kit for joining flush-mounting boxes		-		-		-	

		29		30		31	
Door unit with digitiser		1038/5		1038/5		1038/5	
16-users expansion module		2 x 1038/17		2 x 1038/17		2 x 1038/17	
Flush mount. back boxes with mod. housing		3 x 1155/63		3 x 1155/63		3 x 1155/63	
Push button modules		1 x 1155/13 - 6 x 1155/14		7 x 1155/14		1 x 1155/11 - 7 x 1155/14	
Frames		3 x 1155/93 (*)		3 x 1155/93 (*)		3 x 1155/93 (*)	
Blanc module	Repertory module	-	1155/50	-	1155/50	-	-
Kit for joining flush-mounting boxes		-		-		-	

		32		33		34	
Door unit with digitiser		1038/5		1038/5		1038/5	
16-users expansion module		2 x 1038/17		2 x 1038/17		2 x 1038/17	
Flush mount. back boxes with mod. housing		3 x 1155/63		3 x 1155/63		3 x 1155/63	
Push button modules		1 x 1155/12 - 7 x 1155/14		1 x 1155/13 - 7 x 1155/14		8 x 1155/14	
Frames		3 x 1155/93 (*)		3 x 1155/93 (*)		3 x 1155/93 (*)	
Blanc module	Repertory module	-	-	-	-	-	-
Kit for joining flush-mounting boxes		-		-		-	

(•) alternatives **1155/84 - 1155/87**
(♦) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**

MODULAR EXAMPLES FOR VARIOUS CAPACITIES

	37		38		40	
Door unit with digitiser	1038/5		1038/5		1038/5	
16-users expansion module	2 x 1038/17		2 x 1038/17		2 x 1038/17	
Flush mount. back boxes with mod. housing	6 x 1155/62		6 x 1155/62		6 x 1155/62	
Push button modules	1 x 1155/13 - 8 x 1155/14		9 x 1155/14		1 x 1155/12 - 9 x 1155/14	
Frames	6 x 1155/92 (♦)		6 x 1155/92 (♦)		6 x 1155/92 (♦)	
Blanc module / Repertory module	1155/59	1155/50	1155/59	1155/50	-	1155/50
Kit for joining flush-mounting boxes	2 X 1155/54		2 X 1155/54		2 X 1155/54	

	42		44		45	
Door unit with digitiser	1038/5		1038/5		1038/5	
16-users expansion module	3 x 1038/17		3 x 1038/17		3 x 1038/17	
Flush mount. back boxes with mod. housing	6 x 1155/62		6 x 1155/62		6 x 1155/62	
Push button modules	10 x 1155/14		1 x 1155/12 - 10 x 1155/14		1 x 1155/13 - 10 x 1155/14	
Frames	6 x 1155/92 (♦)		6 x 1155/92 (♦)		6 x 1155/92 (♦)	
Blanc module / Repertory module	-	1155/50	-	-	-	-
Kit for joining flush-mounting boxes	2 X 1155/54		2 X 1155/54		2 X 1155/54	

	46	
Door unit with digitiser	1038/5	
16-users expansion module	3 x 1038/17	
Flush mount. back boxes with mod. housing	6 x 1155/62	
Push button modules	11 x 1155/14	
Frames	6 x 1155/92 (♦)	
Blanc module / Repertory module	-	-
Kit for joining flush-mounting boxes	2 X 1155/54	

(•) alternatives **1155/84 - 1155/87**
(♦) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**

K-STEEL MODULAR VANDAL-PROOF PANEL Mod. 1155- Mod. 1755
VIDEO DOOR PHONE SYSTEMS

MODULAR EXAMPLES FOR VARIOUS CAPACITIES

	1÷2		3		4		5	
Door unit with digitiser	1038/5		1038/5		1038/5		1038/5	
16-users expansion module	-		-		-		-	
Flush mount. back boxes with mod. housing	1155/62		1155/63		1155/63		1155/63	
Push button modules	-		1155/11		1155/12		1155/13	
Frames	1155/92 (°)		1155/93 (*)		1155/93 (*)		1155/93 (*)	
Blanc module / Repertory module	-	-	-	-	-	-	-	-
TV Camera module	1755/70		1755/70		1755/70		1755/70	

	6		7		8		9	
Door unit with digitiser	1038/5		1038/5		1038/5		1038/5	
16-users expansion module	-		-		-		1 x 1038/17	
Flush mount. back boxes with mod. housing	1155/63		2 x 1155/62		2 x 1155/62		2 x 1155/62	
Push button modules	1155/14		1 x 1155/11 - 1 x 1155/14		1 x 1155/12 - 1 x 1155/14		1 x 1155/13 - 1 x 1155/14	
Frames	1155/93 (*)		2 x 1155/92 (°)		2 x 1155/92 (°)		2 x 1155/92 (°)	
Blanc module / Repertory module	-	-	-	-	-	-	-	-
TV Camera module	1755/70		1755/70		1755/70		1755/70	

	10		7		8		9	
Door unit with digitiser	1038/5		1038/5		1038/5		1038/5	
16-users expansion module	1 x 1038/17		-		-		1 x 1038/17	
Flush mount. back boxes with mod. housing	2 x 1155/62		2 x 1155/62		2 x 1155/62		2 x 1155/62	
Push button modules	2 x 1155/14		1 x 1155/11 - 1 x 1155/14		1 x 1155/12 - 1 x 1155/14		1 x 1155/13 - 1 x 1155/14	
Frames	2 x 1155/92 (°)		2 x 1155/92 (°)		2 x 1155/92 (°)		2 x 1155/92 (°)	
Blanc module / Repertory module	-	-	-	-	-	-	-	-
TV Camera module	1755/70		1755/70		1755/70		1755/70	

(°) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**

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K-STEEL MODULAR VANDAL-PROOF PANEL Mod. 1155- Mod. 1755
VIDEO DOOR PHONE SYSTEMS

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MODULAR EXAMPLES FOR VARIOUS CAPACITIES

	10	11	12	13
Door unit with digitiser	1038/5	1038/5	1038/5	1038/5
16-users expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17	1 x 1038/17
Flush mount. back boxes with mod. housing	2 x 1155/62	2 x 1155/63	2 x 1155/63	2 x 1155/63
Push button modules	2 x 1155/14	1 x 1155/11 - 2 x 1155/14	1 x 1155/12 - 2 x 1155/14	1 x 1155/13 - 2 x 1155/14
Frames	2 x 1155/92 (°)	2 x 1155/93 (*)	2 x 1155/93 (*)	2 x 1155/93 (*)
Blanc module	-	-	-	-
Repertory module	-	1 x 1155/50	1 x 1155/50	1 x 1155/50
TV Camera module	1755/70	1755/70	1755/70	1755/70

	14	15	16	17
Door unit with digitiser	1038/5	1038/5	1038/5	1038/5
16-users expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17	1 x 1038/17
Flush mount. back boxes with mod. housing	2 x 1155/63	2 x 1155/63	2 x 1155/63	2 x 1155/63
Push button modules	3 x 1155/14	1 x 1155/11 - 3 x 1155/14	1 x 1155/12 - 3 x 1155/14	1 x 1155/13 - 3 x 1155/14
Frames	2 x 1155/93 (*)	2 x 1155/93 (*)	2 x 1155/93 (*)	2 x 1155/93 (*)
Blanc module	-	-	-	-
Repertory module	1 x 1155/50	-	-	-
TV Camera module	1755/70	1755/70	1755/70	1755/70

	18	20	21	22
Door unit with digitiser	1038/5	1038/5	1038/5	1038/5
16-users expansion module	1 x 1038/17	1 x 1038/17	1 x 1038/17	1 x 1038/17
Flush mount. back boxes with mod. housing	2 x 1155/63	4 x 1155/62	4 x 1155/62	4 x 1155/62
Push button modules	4 x 1155/14	1 x 1155/12 - 4 x 1155/14	1 x 1155/13 - 4 x 1155/14	5 x 1155/14
Frames	2 x 1155/93 (*)	4 x 1155/92 (°)	4 x 1155/92 (°)	4 x 1155/92 (°)
Blanc module	-	-	-	-
Repertory module	-	1 x 1155/50	1 x 1155/50	1 x 1155/50
TV Camera module	1755/70	1755/70	1755/70	1755/70
Kit for joining flush-mounting boxes	-	1155/54	1155/54	1155/54

(°) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**

MODULAR EXAMPLES FOR VARIOUS CAPACITIES

	24		25		26	
Door unit with digitiser	1038/5		1038/5		1038/5	
16-users expansion module	1 x 1038/17		2 x 1038/17		2 x 1038/17	
Flush mount. back boxes with mod. housing	4 x 1155/62		4 x 1155/62		4 x 1155/62	
Push button modules	1 x 1155/12 - 5 x 1155/14		1 x 1155/13 - 5 x 1155/14		6 x 1155/14	
Frames	4 x 1155/92 (°)		4 x 1155/92 (°)		4 x 1155/92 (°)	
Blanc module / Repertory module	-	-	-	-	-	-
TV Camera module	1755/70		1755/70		1755/70	
Kit for joining flush-mounting boxes	1155/54		1155/54		1155/54	

	23		24		25	
Door unit with digitiser	1038/5		1038/5		1038/5	
16-users expansion module	1 x 1038/17		1 x 1038/17		2 x 1038/17	
Flush mount. back boxes with mod. housing	3 x 1155/63		3 x 1155/63		3 x 1155/63	
Push button modules	1 x 1155/12 - 1 x 1155/13 - 4 x 1155/14		2 x 1155/13 - 4 x 1155/14		1 x 1155/13 - 5 x 1155/14	
Frames	3 x 1155/93 (*)		3 x 1155/93 (*)		3 x 1155/93 (*)	
Blanc module / Repertory module	1155/59	-	1155/59	-	1155/59	-
TV Camera module	1755/70		1755/70		1755/70	
Kit for joining flush-mounting boxes	-		-		-	

	26		27		28	
Door unit with digitiser	1038/5		1038/5		1038/5	
16-users expansion module	2 x 1038/17		2 x 1038/17		2 x 1038/17	
Flush mount. back boxes with mod. housing	3 x 1155/63		3 x 1155/63		3 x 1155/63	
Push button modules	6 x 1155/14		1 x 1155/11 - 6 x 1155/14		1 x 1155/12 - 6 x 1155/14	
Frames	3 x 1155/93 (*)		3 x 1155/93 (*)		3 x 1155/93 (*)	
Blanc module / Repertory module	1155/59	-	-	-	-	-
TV Camera module	1755/70		1755/70		1755/70	
Kit for joining flush-mounting boxes	-		-		-	

(°) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**

MODULAR EXAMPLES FOR VARIOUS CAPACITIES

	29		30		32	
Door unit with digitiser	1038/5		1038/5		1038/5	
16-users expansion module	2 x 1038/17		2 x 1038/17		2 x 1038/17	
Flush mount. back boxes with mod. housing	3 x 1155/63		3 x 1155/63		6 x 1155/62	
Push button modules	1 x 1155/13 - 6 x 1155/14		7 x 1155/14		1 x 1155/12 - 7 x 1155/14	
Frames	3 x 1155/93 (*)		3 x 1155/93 (*)		6 x 1155/92 (°)	
Blanc module / Repertory module	-	-	-	-	1155/59	1155/50
TV Camera module	1755/70		1755/70		1755/70	
Kit for joining flush-mounting boxes	-		-		2 x 1155/54	

	34		35		38	
Door unit with digitiser	1038/5		1038/5		1038/5	
16-users expansion module	2 x 1038/17		2 x 1038/17		2 x 1038/17	
Flush mount. back boxes with mod. housing	6 x 1155/62		6 x 1155/62		6 x 1155/62	
Push button modules	8 x 1155/14		1 x 1155/11 - 8 x 1155/14		9 x 1155/14	
Frames	6 x 1155/92 (°)		6 x 1155/92 (°)		6 x 1155/92 (°)	
Blanc module / Repertory module	1155/59	1155/50	-	1155/50	-	1155/50
TV Camera module	1755/70		1755/70		1755/70	
Kit for joining flush-mounting boxes	2 x 1155/54		2 x 1155/54		2 x 1155/54	

	40		42	
Door unit with digitiser	1038/5		1038/5	
16-users expansion module	2 x 1038/17		3 x 1038/17	
Flush mount. back boxes with mod. housing	6 x 1155/62		6 x 1155/62	
Push button modules	1 x 1155/12 - 9 x 1155/14		10 x 1155/14	
Frames	6 x 1155/92 (°)		6 x 1155/92 (°)	
Blanc module / Repertory module	-	-	-	-
TV Camera module	1755/70		1755/70	
Kit for joining flush-mounting boxes	2 x 1155/54		2 x 1155/54	

(°) alternatives **1155/85 - 1155/88**
(*) alternatives **1155/86 - 1155/89**

DECODERS

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DECODERS

FOUR-PORT DECODER Ref. 1038/34

4-USER DECODER PRESET FOR VIDEO, CALL TO FLOOR AND DOOR OPEN LED Ref. 1038/35

EIGHT-USER DECODER WITH VIDEO AND DOOR OPEN LED SET-UP Ref. 1038/38

SPECIAL DECODER Ref. 1038/80

FOUR-PORT DECODER Ref. 1038/34

FEATURES

Four-port decoder Ref. 1038/34 provides the following features:

- Connection to four doorphone users.
- Provision for connection in parallel with up to two doorphone apartment stations for each user.
- Conversations and door lock release function protected by privacy feature.
- Manages door lock release, call switchboard and special doorphone services (the latter only if used with doorphones Ref. 1138/2).
- Provision for programming (and checking programmed codes) with system off, using programming terminal Ref. 1038/56.

The four-port decoder consists of the following:

(1) Shock-resistant white plastic cover.
(2) Decoder.
(3, 4) Removable terminal blocks for connection to power supply, data and voice backbone: 'ME' input (4) and 'MU' output (3).
(5) Removable terminal block for connection to four users (A, B, C,D).
(6) Decoder data and code label.
(7) Programming connector.
(8) Programming key
(9) Programming/data line LED.

Overall dimensions (mm): W =125 H =100 D =38

TERMINAL DESIGNATIONS

Backbone line terminals:
+V Power supply positive (+24V)
0V Power supply and data line ground
D Data line
FA Outward voice conductor
FB Return voice conductor

Apartment station branch line terminals:
0V Call, services and call from landing line ground
CA Call and services line
FA Outward voice conductor
FB Return voice conductor

SPECIFICATIONS

Consumption in load units (LU):	**1.5 LU**
Supply voltage:	**12 - 25.2 V dc**
Max. current draw during calls with 2 doorphones in parallel:	**150 mA**
Service temperature range:	**-10°C to +45°C**

OPERATION

Decoder Ref. 1038/34 can connect up to four users, each of which can connect a maximum of two doorphones in parallel.
During programming (see the paragraph headed 'Programming'), each user must be assigned a code. These codes are resident on an EEPROM memory which guarantees that they are retained even with power off.
With doorphones Ref. 1138/2, it is also necessary to program the codes associated with the two additional keys.

During operation, the decoder analyzes the code emitted by the calling device and, if it corresponds to one of the codes for which the decoder has been programmed, the decoder sends an appropriate ringing signal to the user (i.e., the apartment station) associated with it.
The conversation can last up to ten minutes if no calls are made to another user.
After the 10-minute time-out period, or if the call is interrupted by a call to another user, the decoder sends a courtesy tone to the connected station to inform the user that the call has been interrupted.
Doorphone Ref. 1138/2 is provided with three special keys which can be used to send "Door Lock Release", "Call Switchboard" and "Call Special Doorphone " command signals. The decoder emits a courtesy tone each time one of these signals is sent.

Only one door lock release signal is needed, even if the system includes several outdoor stations, each with an electric lock: actuating the door lock release key will open the electric lock only at the outdoor station from which the call was made.

PROGRAMMING

DECODER PROGRAMMING METHODS

Decoders can be programmed in three ways:

1. At the workshop prior to installation, using programming terminal 1038/56 or any calling device and a power supply unit. In this way, all decoders can be programmed at the same time, and subsequently installed in the appropriate locations.
2. Directly on the system (which need not be supplied with power), simply by connecting programming terminal Ref. 1038/56 directly to programming connector (7). This is the recommended method, as the terminal's display simplifies programming operations.
3. On the system supplied with power, using any calling device. This operation must be carried out by two people who communicate using transceivers or cellular phones. One person will use the doorphone system calling device while the other works at the decoders.

PROGRAMMABLE PARAMETERS

The following parameters must be programmed for each decoder:
- Riser cable code
- Four user codes
- Codes for additional keys (only where doorphones Ref. 1138/2 are used).

The riser cable code identifies the riser cable on which the decoder is physically installed. The riser cable code can assume values between '01' and 'JJ' and **MUST** necessarily be the same as the riser cable code assigned to the corresponding secondary entrance panel. In the case of decoders installed on the intermediate cable between main and secondary entrance panels, the assigned riser cable code must be 'X1' if the decoder is connected to voice line 1, and 'X2' if the decoder is connected to voice line 2.
For systems with no secondary entrance panels, the riser cable code '01' must be assigned to ALL decoders.

The user code is a unique 4-character alphanumeric code which positively identifies each user. Codes between '0001' and 'JJJJ' can be assigned. The user code can be selected **FREELY**, or in other words need not be linked in any way with the decoder's riser cable code. However, each user code must be **UNIQUE** in the system. The two keys on doorphone Ref. 1138/2 (bottom key T1 and top key T2) can be assigned codes in order to program them for special functions as follows:
- Code '0000': Call guard door switchboard station.
- Code between '1000' and 'JJJJ': Call special doorphone.

PROGRAMMING WITH TERMINAL 1038/56

Programming with the terminal can be carried out either with power supplied to the system or with the SYSTEM OFF. Decoders can thus be programmed immediately after they are installed and before the rest of the system has been completed.
- Turn on the terminal, holding down the 'ON' key for at least 3 seconds.
- Plug the programming cord into the associated socket (7). The terminal will automatically recognize the device and the following message will appear on the display:

```
Decoder
4-User
```

- The data currently stored in decoder memory will then be shown on two screen pages:
  (Page 1: Riser cable and user code assignments)

```
Riser: RR
A:RRRA B: RRRB
C:RRRC D: RRRD
```

(Page 2: Key T1 and T2 code assignments)

```
A-1:00002:0000
B-1:00002:0000
C-1:00002:0000
D-1:00002:0000
```

Note: *The riser cable and user codes in spaces 'R' are private codes programmed at the factory for all devices.*

- Using the:
  - alphanumeric keys
  - the '←' and '→' keys to move
  - the '↵' key to confirm, program the riser code, the user codes and only if the Ref. 1138/2 house phone is used, the additional key codes.
- Press the '→' (or '←') key several times to move on the display:

```
<Cancel>
<Program>
```

- Move the cursor to 'Program' and press ↵. The terminal will write programmed data in the decoder memory and display the outcome of the write operation, read the data stored in decoder memory, and present them on the display for a further check.
- Check data again.
- Disconnect the programming cord from the decoder and turn off the terminal by holding down the 'OFF' key for at least 3 seconds.

PROGRAMMING WITH A CALLING DEVICE

Riser cable code and user codes

- Check that programming LED (9) is off.
- Press and immediately release the programming key (8): LED (9) should go on to confirm.
- Using the keypad on the calling device, enter the riser cable code to be assigned to the decoder (1) . LED (9) will flash and then remain on.
- Using the same procedure described above, enter the codes for the four users. After the fourth code has been entered, LED (9) will go off.

If fewer than four user codes are to be assigned, press programming key (8) after entering the first, second or third user code, as applicable.

Additional key codes for doorphones 1138/2

- Check that programming LED (9) is off.
- Hold down the programming key (8) until LED (9) starts to flash.
- Release the programming key; LED (9) will remain on.
- Using the keypad on the calling device, enter the code to be assigned to key 'T1' (bottom key) on the first user station and press the call button (2) . LED (9) will flash briefly and then remain on.
- Using the keypad on the calling device, enter the code to be assigned to key 'T2' (top key) on the first user station and press the call button (2) . LED (9) will flash and then remain on.
- Using the same procedure described above, enter codes for keys 'T1' and 'T2' on the second, third and fourth user stations. after the eight code has been entered, LED (9) will go off.

If fewer than eight key codes are to be assigned, press the programming key after entering the last of the desired key codes (8).

NOTICE: TO ensure that system maintenance can be efficiently performed, it is ESSENTIAL that the codes programmed in each four-port decoder be written down on the label (6) provided on the decoder cover.

(1) To assign the riser cable code 'X1' or 'X2':
- If an entrance module is used, hold down the 'Key' button while pressing '1' or '2': the display will show '-1' or '-2'. Press the call button to confirm.
- If a guard door switchboard station is used, press '1' or '2' and then confirm by pressing the shift key (↵) and the call button simultaneously.

(2) If a key is to be programmed to call the switchboard ('0000'), simply press the call button without entering a code.

INSTALLATION

WARNING: Be sure to follow the instructions indicated in the section headed "Installation Requirements" when setting up wiring. This section also specifies the maximum permissible cable lengths.

Four-port decoder must be installed as shown below.

WALL SURFACE MOUNTING WITH RECESSED WIRING

WIRES

COVER

BASE

WALL

WALL SURFACE MOUNTING WITH EXTERNAL WIRING

CONDUIT + WIRES

COVER

BASE

CONDUIT + WIRES

WALL

All terminal blocks are removable to facilitate maintenance operations and are provided with fins to separate conductors.
Terminal blocks are removed upwards. If necessary, a screwdriver may be used as shown.

A:

B:

Four-port decoder is provided with four holes for retention to wall using screw plugs. Plugs are not supplied with the unit.

DIAGNOSTICS

WARNING: Removing the protective plastic cover from the electronic circuit board will automatically void product warranty.

When the system is supplied with power and the decoder is not being programmed, LED (9) will signal malfunctions as follows:

Continuous flashing:
Data bus short circuit, no data bus, data cable not connected to terminal 'ME'.

4-USER DECODER PRESET FOR VIDEO, CALL TO FLOOR AND DOOR OPEN LED Ref. 1038/35

CAPABILITIES

The capabilities of the Ref. 1038/35 4-user decoder are as follows:

- Connection of 4 house phone and/or video house phone users of the DIGIVOICE line;
- When used in video house phone systems, combination of the video signal with the audio signal.
- Possibility of connecting up to 2 indoor sets (house phone or video house phone) in parallel for each user;
- Secrecy of conversion and lock release;
- Management of lock release, call to switchboard and special house phone services (the latter only with Ref. 1138/2 house phones);
- Call to floor function;
- Outputs dedicated to driving the Mute/door open led kit Ref.1138/52;
- Management of the "AUTOMATIC LOCK RELEASE' function;
- Management of the 'AUTOMATIC ACTIVATION' function;
- Possibility of programming (and of checking the programmed codes) also with the system OFF, using the Ref. 1038/56 programming terminal.

The 4-user Decoder comprises:

(1) White shock-resistant plastic cover.
(2) Decoder device.
(3, 4) Extractable terminal boards for connection to the riser, data and speech: 'ME' input (4) and 'MU' output (3).
(5) Extractable terminal boards for connection to 4 users (A, B, C, D) and to the related call to floor functions.
(6) Fixed terminal boards for connection of the mute/door open led kit.
(7) Programming connector.
(8) Programming key
(9) Programming led and missing data line survey;
(10) Label for recording of decoder data and code reminder.

Overall dimensions (mm): w=125 h=100 d=38

DESCRIPTION OF THE TERMINALS

Terminals of the riser:
+V Power supply positive (+24V)
0V Power supply and data line ground
D Data line
FA To voice conductor
FB Return voice conductor

Terminals of the extensions to the indoor sets:
0V Ground of the call line, services and call to the floor
CA Call line and services
FA To voice conductor
FB Return voice conductor
CP Call to floor conductor
CV Video call conductor

Terminals for mute/door open led kit:
PA Door open indication power supply circuit
MU Mute circuit power supply

TECHNICAL FEATURES

Current drain in terms of unitary loads (UL):
- Connections without mute key/led kit Ref.1138/52: **1.5 UL**
- Connections with mute key/led kit Ref.1138/52: **2.5 UL**

Power supply voltage: **12 – 25.2 Vdc**
Max. electrical input on stand-by: **20 mA**
Max. electrical input with mute Key/led Kit Ref. 1138/52 and two house phones in parallel **170mA**
Operating temperature: **-10C +45C**

BASIC FUNCTIONING

The Ref. 1038/35 decoder makes it possible to connect up to 4 users, each of which can connect up to two indoor sets in parallel (house phones or video house phones).
A code must be assigned to each user in the programming phase (see Programming paragraph). These codes are stored in an EEPROM memory chip that guarantees the keeping of these even in case of power supply lack.
With the Ref. 1138/2 house phones, the codes assigned to the two additional keys must also be programmed.
During functioning, the decoder analyzes the code emitted by the device that has made the call and if this matches one of the codes for which it has been programmed, it forwards the appropriate call signal to the associated user (indoor set).
The conversation is activated for a maximum of 10 minutes (time-out) if it is not interrupted by a call to another user. Any video signal is maintained throughout the conversation. If the conversation is interrupted due to expiry of the time-out or interruption following a call of another user, the decoder emits a courtesy tone to inform the user that the communication has been interrupted.
Pressing the related keys, i.e. "Lock release", "Call to switchboard" and "Call to special house phone ", three separate commands can be sent by the house phone (Ref. 1138/2) and/or video house phone (Ref. 1138/2 + Ref. 1732/1 + Ref. 1732/92). The decoder emits a courtesy tone for each command sent.
There is only one lock release command even if the system is equipped with several call stations with related electric lock. Only the lock of the station from which the call has been made is opened when the lock release key is pressed.

ADDITIONAL CAPABILITIES

Video function

The Ref. 1038/35 4-user decoder is arranged for connection of a video indoor set consisting of a Ref.1138 or Ref.1138/2 house phone combined with a Ref. 1732/1 video module with Ref. 1732/92 bracket. When a call is made, this capability makes it possible to activate the video house phone of the user called and to de-activate this at the end of the communication (due to time-out or to a call to another user). If the call is not answered, the video signal is maintained for maximum 30 seconds.

Automatic activation

With this capability, a video indoor set can display the image viewed by the system TV cameras (usually for surveillance/control) without any need for dedicated wiring.
Using a Ref. 1138/2 house phone in a video house phone station, one or two TV cameras can be activated automatically. Automatic activation is requested pressing one of the two keys of the house phones and the request is accepted only if it is compatible with the current traffic situation in order to avoid interrupting any conversations in course.
For further information, refer to the Programming paragraph of this chapter.

Call to the floor

The Ref. 1038/35 4-user decoder also includes the call to floor function. To activate this function, connect a button with normally open contact to the ‘CP’ and ‘0V’ terminals of the user required. When the button is pressed, the decoder sends a call to the related user. The length of the call depends on how long the key is pressed but does not however exceed 6 seconds.

Ref. 1038/52 mute/door open led kit management

The Ref. 1038/35 4-user decoder is complete with a fixed 2-way terminal board in order to interface the Ref. 1038/52 ‘MUTE/DOOR OPEN LED KIT’.
For further information regarding this capability, refer to the handbook of the mute/door open led kit.

‘AUTOMATIC LOCK RELEASE’ capability

This capability permits automatic opening of the door each time a call is made to the user which hasenabled this function (often very useful for business offices during office hours).
The capability can be enabled independently for each of the users connected to the system using Ref. 1138/2 house phones equipped with the Ref. 1038/52 mute/door open led kit. For further information, refer to the handbook of the ‘mute/door open led’ Kit.

PROGRAMMING

PROGRAMMING METHODS OF THE DECODER

The decoder device can be programmed in three different ways:

1. Previously in the laboratory using the Ref.1038/56 programming terminal or any calling device and a power supply unit. In this way, all the decoders can be programmed and then installed at the related floors.
2. Directly on the system (also with this switched off) simply connecting the Ref. 1038/56 Programming Terminal directly to the programming connector (7). This method is recommended as the terminal display considerably simplifies programming.
3. On the system powered, using any calling device. This operation must be carried out by two persons in communication with each other using receiver/transmitters or radio telephones. One person operates on the calling device while the other one acts on the decoder devices at the floors.

PROGRAMMABLE PARAMETERS

The following must be programmed for each decoder device:

- the riser code;
- the 4 user codes;
- the codes of the additional keys (only in the case in which Ref. 1138/2 house phones are used). The riser code identifies the riser on which the decoder is physically installed. Values between ‘01’ and ‘JJ’ may be assigned as riser code and this **MUST** be the same of the riser code of the matching secondary call station.

In the particular case of decoders installed in the intermediate section between the main stations and secondary stations, ‘X1’ or ‘X2’ must be set as riser code, according to whether the decoder is connected to speech 1 or speech 2.
In the case of systems without secondarystations, the riser code of ALL the decodersmust be set to ‘01’.

The user code is a 4 alphanumeric character code that identifies each individual user. Allowed values are between ‘0001’ and ‘JJJJ’. The user code can be set **FREELY** that is to say without any link with the riser code of the decoder. Each user code must however be **UNIQUE** within the system.

The two keys of the Ref. 1138/2 house phone (lower key T1 and upper key T2) can be programmed to perform the following functions:

- Code ‘0000’: call to main entrance switchboard;
- Code ‘0999’: automatic activation function on own secondary;
- Code between ‘0980’ and ‘0989’ or between ‘0990’ and ‘0998’: automatic activation function on main station with matching code;
- Code between ‘1000’ and ‘JJJJ’: call to special house phone.

PROGRAMMING USING THE 1038/56 TERMINAL

The terminal can be used for programming both with the system powered **OR WITH THE SYSTEM OFF**. This means that the decoders can be programmed immediately after installation, even in an incomplete system.

- Hold down the ‘ON’ key for at least 3 seconds in order to switch on the terminal.
- Insert the programming cable in the specific plug (7). The terminal will automatically recognize the device and the following will be shown on the display:

```
Decoder
4-user
```

- The data currently stored in the decoder will then be displayed in two pages:
  (Page 1: Riser assignment and user code)

```
Riser: RR

A:RRRA B: RRRB
C:RRRC D: RRRD
```

(Page 2: Assignment of the codes of keys T1 and T2)

```
A-1:00002:0000
B-1:00002:0000
C-1:00002:0000
D-1:00002:0000
```

4-USER DECODER PRESET FOR VIDEO, CALL TO FLOOR AND DOOR OPEN LED Ref. 1038/35

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INSTALLATION

Note: *the riser and user codes containing 'R' are reserved factory-set codes on all the devices.*

- Using the:
  - alphanumeric keys
  - the ← and → keys to move
  - the ↵ key to confirm, program the riser code, the user codes and only if the Ref. 1138/2 house phone is used, the additional key codes.
- Press the ← (or →) key several times to move on the display:

<Cancel>
<Program>

- Position the cursor on 'Program' and press ↵'. The terminal will program the decoder with the data entered, displaying the result of the writing operation and re-reading the data effectively stored in order to re-display this for further checking.
- Check the data again.
- Disconnect the programming cable from the decoder and press the 'OFF' key for at least 3 seconds in order to switch off the terminal.

PROGRAMMING USING CALLING DEVICE

Riser code and user codes

- Check that programming led (9) is OFF.
- Press briefly and release the programming key (8): led (9) must switch on for confirmation.
- Enter the riser code to be assigned to the decoder (1) on the keyboard of the calling device and press the call key: in this phase, led (9) must flash and then remain permanently ON.
- Send the codes of the 4 users following the procedure specified in the previous point. When the 4th code has been sent, led (9) will switch off.
  If not all four user codes are to be stored, press the programming key (8) after sending the first, second, third user code.

Additional key codes for 1138/2 house phone

- Make sure that programming led (9) is OFF.
- Hold the programming button (8) pressed until LED (9) starts blinking.
- Release the programming button. The LED (9) will come on fixed.
- Enter the code to be assigned to key 'T1' (lower key) of the 1 st user on the keyboard of the calling device and press the call key (2): In this phase, led (9) will flash briefly and then remain ON.
- Enter the code to be assigned to key 'T2' (upper key) of the 1 st user on the keyboard of the calling device and press the call key (2): in this phase, led (9) will flash and then remain ON.
- Following the procedure described above, send the codes of keys 'T1' and 'T2' of the 2nd, 3rd, 4th user. When the 8th code has been sent, led (9) will switch OFF.

If not all eight key codes are to be stored, press programming key (8) after sending the last code desired.

WARNING: For efficient system maintenance, ALWAYS remember to fill in the specific remainder label (6) on the cover of the decoder when programming the 4-user decoder.

(1) To set 'X1' or 'X2' as riser code:
- press the 'Key' key on the call module and, holding this down, press '1' or '2': '-1' or '-2' will be shown on the display. Confirm with the call key.
- on the main entrance switchboard, press '1' or '2' and then confirm pressing the shift key ('↵') and, at the same time, the call key.

(2) If the value '0000' (call to switchboard) is to be assigned to a key, simply press the call key without entering any code.

INSTALLATION

WARNING: Be sure to follow the instructions indicated in the section headed "Installation Requirements" when setting up wiring. This section also specifies the maximum permissible cable lengths.

The 4-user decoder can be installed as shown in the figure.

All the terminal boards (except for the 2-way terminal board for the 'MUTE/DOOR OPEN LED kit) can be extracted in order to facilitate maintenance operations and they are provided with side protections to avoid short circuit between the wires. To extract the terminal boards, slide these out in an upward direction, if necessary exerting pressure with a screwdriver (see figure).

The 4-user decoder has 4 holes for wall surface mounting with 6mm-diameter expansion small blocks, not provided.

WARNING: Opening of the plastic cover that protects the electronic board invalidates the product warranty.

DIAGNOSTICS

Once the system is powered and the decoder is not in the programming phase, LED (9) displays any 'error' condition:

Continuous flashing:
data bus short-circuited or not present or data cable on 'ME' not connected.

EIGHT-USER DECODER WITH VIDEO AND DOOR OPEN LED SET-UP Ref. 1038/38

PERFORMANCE

The eight-user decoder Ref. 1038/38 has the following features:

- Connection to DIGIVOICE eight door phone and/or video door phone users.
- Combination of video and audio signal (in video door phone systems).
- Possibility of connecting up to two apartment stations (door phone or video door phone) in parallel for each user.
- Conversation privacy and door opener.
- Management of door opener, switchboard call and special door phone services (the latter with door phones Ref. 1138/2) only.
- Mute/ door open LED control Ref. 1138/52 dedicated outputs.
- “AUTOMATIC DOOR OPENER” function management.
- “AUTO-ON” function management.
- Possibility of programming (and checking programmed codes) also when the system is off by means of programming terminal Ref. 1038/56.
- Availability of a 2A switch contact for interfacing with lift systems.

The eight-user decoder consists of the following parts:

1) Grey plastic cover
2) Decoder device
3) Programming button
4) Programming and no data line LED
5, 6) Extractable terminal board for connecting to the power, data and voice spines: ‘ME’ in (6) and ‘MU’ out (5).
7) Extractable terminal boards for connecting eight users (A, B, C, D, E, F, G, H).
8) Fixed terminal board for connecting mute/door open LED kit and switch contact.
9) Programming connector.
10) Decoder data and code memo label

Total dimensions (mm) w = 177; h = 75.3; d = 110

DESCRIPTION OF TERMINAL BOARDS

Spine terminals:
+V Power positive (+24V)
0V Power earth and data line
D Data line
FA Voice out wire
FB Voice back wire

Terminals to apartment stations:
0V Call line and services
CA Call line and services
FA Voice out wire
FB Voice back wire
CV Video call wire

Mute/door open LED kit terminals:
PA Door open LED circuit power
MU Mute circuit power

Relay contact terminals:
NC - C - NA

TECHNICAL SPECIFICATIONS

Relay contact:	**30 VDC**
	2A on resistive load
Intake in terms of unitary load (UL):	
• Systems without Mute/LED kit Ref. 1138/52:	**1.5 UL**
• Systems with Mute/LED kit Ref. 1138/52:	**2.5 UL**
Power voltage:	**12 - 25.2 VDC**
Maximum stand-by consumption:	**20 mA**
Working temperature range:	**-10°C +45°C**

BASIC FUNCTIONS

The decoder Ref. 1038/38 can be used to connect up to eight users, to which two apartment stations (door phone or video door phone) can be connected in parallel. A code must be assigned to each user during programming (see “Programming”).
The codes reside in an EEPROM memory, which stores the codes also following a blackout. The codes associated to two additional buttons must be programmed on door phones Ref. 1138/2. During operation, the decoder analyses the code output by the calling device and forwards the according call signal to the associated user (apartment station) if it corresponds to programmed code. The conversation is activated for up to ten minutes (time-out) if it is not interrupted by a call to another user. The video signal, where relevant, will remain active for the entire conversation. The decoder will output a courtesy tone to warn the user that the conversation has been interrupted by time-out or following a call to another user.
Three different functions can be operated by pressing the respective buttons on apartment door phones and/or video door phones “door opener”, “call to switchboard” and “call to special door phone”.
The decoder outputs a courtesy tone after receiving each control. There is only one door opener in the system also if the system includes several calling stations with respective electrical locks. The door opener button will only open the lock corresponding to the station which made the call.

EIGHT-USER DECODER WITH VIDEO AND DOOR OPEN LED SET-UP
Ref. 1038/38

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ADDITIONAL FEATURES

Video function

The eight-user decoder Ref. 1038/38 is set-up to be connected to a video door phone apartment station, consisting of a door phone Ref. 1138 or Ref. 1138/2, combined with a video module Ref. 1732/1 and bracket Ref. 1732/92. This function activates the called user's video door phone when the call is made and deactivates is when the conversation ends (for time-out or following a call by another user).
The video signal will stay on for up to 30 seconds if the call is not answered.

Auto-on

This function is used to view the picture shot by a camera in the system (generally for surveillance/checking) from a video door phone apartment station without the need for dedicated wiring. One or two cameras can be switched on automatically if a door phone Ref. 1138/2 is fitted in the video door phone station. The auto-on request is made by pressing one of the two door phone buttons and is carried out providing it is compatible with the current situation, so as not to interrupt any conversations in progress. For more information, see "Programming" chapter in this manual.

Mute/door open led kit management Ref. 1138/52

The eight-users decoder 1038/38 is equipped with a fixed terminal board for interfacing with a "MUTE/DOOR OPEN LED" kit Ref. 1138/52. Refer to the "Mute/door open LED" kit manual for more information.

"AUTOMATIC DOOR OPENER" Feature

The feature can be used to open the door automatically whenever the user who enabled the function is called (particularly useful for offices during opening hours). The feature can be enabled independently for each of the connected users using door phones Ref. 1138/2 with Mute/ door open LED kit Ref. 1138/52. Refer to the "Mute/door open LED" kit manual for more information.

"DOOR OPENER SWITCH CONTACT" Feature

This feature is used to set up a switch contact which is activated whenever the door opener button is pressed by any user. The available contact is a 2 A max. 30 VDC resistive load.

PROGRAMMING

DECODER PROGRAMMING METHODS

The decoder can be programmed in three ways:
1. In a workshop, before installation, using programming terminal Ref. 1038/56 or any calling device and a power unit. All the decoders can be programmed in this way before being installed on the various floors.
2. Directly on site (also with the system off) simply by connecting programming terminal Ref. 1038/56 directly to the programming connector (9). This is the recommended programming method because it is the simplest, thanks to the terminal display.
3. On site, using any calling device. Two people communicating by means of walkie-talkies or mobile telephones are required for this procedure. One person will work on the calling device while the other will work on the decoding devices on the floors.

PROGRAMMABLE PARAMETERS

The following parameters must be programmed for each decoder:
- the riser code;
- eight user codes;
- the additional button codes (for door phones Ref. 1138/2) only.

The riser code identifies the riser where the decoder is physically installed.
The riser code is included in the range from '01' to 'JJ' and **MUST** be the same as the riser code of the corresponding secondary calling station. In the specific case of decoders installed in the intermediate section between main stations and secondary stations, set the riser code to 'X1' or 'X2' according to whether the decoder is connected to voice 1 or voice 2.
In the case of system without secondary stations, ALL decoders must have the riser code set to '01'.

The user code is a four-character alphanumeric code which univocally identifies the individual user.
Permitted values are included in the range from '0001' to 'JJJJ'. The user code is **FREE**, i.e. is not related to the riser code of the decoder. However, each user code must be **UNIQUE** in the system.

The two buttons on door phone Ref. 1138/2 (lower button T1 and upper button T2) can be programmed for the following functions:
- Code '0000': call to concierge switchboard.
- Code '0999': auto-on referred to corresponding secondary.
- Code in the range from '0980' to '0989' or from '0990' to '0998': auto-on referred to main station with corresponding code.
- Code in the range from '1000' to 'JJJJ': call to special door phone.
- Code '100': panic alarm to concierge switchboard (with visual and acoustic warnings on switchboard which are different from those used during normal operation).

PROGRAMMING VIA TERMINAL 1038/56

The device can be configured by means of the terminal either with the system powered or not powered. In this way, the decoders can be configured immediately after being installed, also before the system is finished.
- Hold the "ON" button pressed for at least two seconds to switch the terminal on.
- Plug the programming cable in the specific socket (9). The terminal will automatically recognise the device and the following message will appear on the display:

```
Decoder
Eight users
```

- The data currently stored in the decoder will appear on four pages: (Page 1: Riser and user code allocation)

```
Riser:RR
A:RRRA      B:RRRB
C:RRRC      D:RRRD
```

(Page 2: User code allocation)

```
Riser:RR
E:RRRE      F:RRRF
G:RRRG      H:RRRH
```

(Page 3: T1 and T2 button code allocation)

```
A-1:0000 2:0000
B-1:0000 2:0000
C-1:0000 2:0000
D-1:0000 2:0000
```

(Page 4: T1 and T2 button code allocation)

E-1:*0000* 2:*0000*
F-1:*0000* 2:*0000*
G-1:*0000* 2:*0000*
H-1:*0000* 2:*0000*

Note: *The riser and user codes containing letter "R" are pre-programmed factory codes reserved for all devices.*

- Use the following buttons to confirm to program the riser code, the user codes and the additional button codes (door phone Ref. 1138/2 only):
  - alphanumeric keys
  - buttons ← and → to move
  - button ↵ to confirm
- Press button ← (or →), repeatedly to go to the following page:

<Cancel>
<Program>

- Position the cursor on "Program" and press ↵. The programmed data will be copied to the decoder. The result of the writing operation will be shown. The device will re-read the data actually stored in the decoder and represent for an additional check.
- Check the data.
- Disconnect the decoder programming wire and switch the terminal off by holding the "OFF" button pressed for at least three seconds.

PROGRAMMING VIA CALLING DEVICE

Riser and user codes

- Make sure that the programming LED (4) is off.
- Briefly press and release the programming button (3): the LED (4) should go on to confirm.
- Dial the riser code to be allocated to the decoder (1) on the keypad of the calling device and press the call button. The LED (4) should blink and stay on.
- Send the codes related to the eight users with the same procedure. The LED (4) will go out after sending the eighth code. Press the programming button (3) after sending the last code if you do not want to program all eight codes.

Additional button codes for door phone 1138/2

- Make sure that the programming LED (4) is off.
- Hold the programming button (3) pressed until the LED (4) starts flashing.
- Release the programming button. LED (4) should be on.
- Dial the code to be allocated to button 'T1' (lower button) by user 1 on the keypad of the calling device and press the call button (2) . During this phase, the LED (4) will blink briefly and stay on.
- Dial the code to be allocated to button 'T2' (upper button) by user 1 on the keypad of the calling device and press the call button (2) . During this phase, the LED (4) will blink briefly and stay on.
- Send the codes for buttons 'T1' and 'T2' for the 2nd, 3rd, 4th, 5th, 6th, 7th and 8th user. The LED (4) will go out after sending the sixteenth code.

Press the programming button (3) after sending the last code if you do not want to program all sixteen buttons.

IMPORTANT: Remember to fill in the memo label (10) on the decoder cover after programming the eight-user decoder. This is essential to ensure efficient maintenance.

(1) To program riser code 'X1' or 'X2':
- Hold the "Key" button on the calling module pressed and press '1' or '2': the message '-1' or '-2' will appear on the display. Press the call button to confirm.
- Press '1' or '2' on the concierge switchboard and press "Shift" and the call button at the same time to confirm.

(2) To program '0000' (call to switchboard) for a button, simply press the call button (without entering a code).

INSTALLATION

IMPORTANT: Refer to the instructions in the "Integrated System Technical Manual" for wiring and maximum permitted distances.

The eight-user decoder must be positioned inside an electrical panel. It can be fitted on a DIN bar.

DIN BAR

All terminal boards (except for the five-way terminal board for the Mute/door open LED kit) are removable to simplify maintenance operations. To remove the terminal boards from the eight-user decoder, pull the upwards levering with a screwdriver where needed.

TROUBLESHOOTING

The LED (9) is used to signal failures when the system is powered and the decoder is not being programmed.

Continuous blinking:
either data bus short-circuited or down or data wire not connected to 'ME'.

SPECIAL DECODER Ref. 1038/80

PERFORMANCE

The special decoder 1038/80 can be used in a Digivoice system to activate electrical loads by means of a double exchange relay whose operation can be:
- bistable;
- toggle timed (from 500ms to 59'59").

Possible applications include: switching staircase lights on, operating supplementary locks, opening gates, etc. The load can be controlled directly, since this is a power relay (see TECHNICAL SPECIFICATIONS).

The special decoder will energise the relay as shown below according to how it is configured and programmed.

A) Interventions on the system:

TWO PROGRAMMABLE EVENTS FROM THE FOLLOWING OPTIONS:
Door opener button
Switchboard/special intercom call button
Auto-on button
User call
Special code entry

B) "Hospital call" function

TWO OPERATING MODES:
1) With associated loudspeaker intercoms
2) Without associated loudspeaker intercoms

In addition to operating modes A and B, the decoder can control the video switch 1038/69 for auto-on function of surveillance cameras.

STRUCTURE

The special decoder consists of the following parts:

1) White shock-proof plastic cover.
2) Decoder device.
3) Removable terminal board for connection to Digivoice bus.
4) Removable terminal board for connection to external relay activation and deactivation buttons.
5) Removable terminal board for status for external relay, where relevant.
6) Removable terminal board for connection to video switch 1038/69.
7) Memo label.
8) Fixed relay output terminal boards.
9) Terminal protection cover.
10) Programming button and LED.
11) Connector for connection to programming terminal 1038/56.

DESCRIPTION OF TERMINAL BOARDS

+V	power positive (+24V)	(Bus Digivoice)
0V	earth	(Bus Digivoice)
D	data line	(Bus Digivoice)
PC	normally closed input button:	Relay ON
0V	earth	
0V	earth	
PR	normally open input button:	Relay OFF
L	status reading contact input	
0V	earth	
T	output for 1038/69	
RES	output for 1038/69	
NA	normally open contact of the relay (two exchanges)	
NC	normal closed contact of the relay (two exchanges)	
C	common contact of the relay (two exchanges)	

TECHNICAL SPECIFICATIONS

Intake in terms of unitary load:	**2 UL**
Power voltage +V, 0V:	**16-25, 2Vdc**
Working temperature range:	**-5 °C +45 °C**
T, RES outputs:	
Maximum applicable voltage:	**30Vdc**
Maximum intake current:	**10mA**
Typical output resistance	**100Ohm**
Toggle relay time:	**0-59'59" (0 =500ms)**
Automatic reading of terminal L:	**400 ms after relay implementation control**
Relay contact:	**30Vdc 5A; 250Vac 5Aac.**

OPERATION

The various possible applications of the special decoder are described below.

A. RELAY ENERGISING FOLLOWING EVENT IN THE SYSTEM
The special decoder is capable of storing two events. In the case of toggle relay configuration, the relay is energised whenever one of the two events occurs. In the case of bistable relay configuration, the relay will be energised by the first stored event and de-energised for the second stored event. A special code for querying the status of the terminal L from the call module, the switchboard or the special intercom can be stored in the decoder.

The following special events can be stored:
1) Apartment station door opener button pressed.
2) Priority door opener from switchboard.
3) Switchboard to apartment station call button pressed or special intercom to apartment station call button pressed.
4) Apartment station auto-on button pressed.
5) Call from calling module, switchboard, or special intercom to a user in the system.
6) Entry of special code from calling module, switchboard or special intercom. In the latter case, terminal L can be read automatically to provide immediate feedback on the operation carried out.

B. RELAY ENERGISING AND DE-ENERGISING FOLLOWING PRESSING OF PC AND PR BUTTONS
The special decoder can energise and de-energise the relay following pressing on the PC and PR buttons. Pressing the PC button will also generate a call to the switchboard. Pressing the PR button will also delete this call from the switchboard memory. The "hospital call" function can consequently be carried out in two different ways:
1) System with loudspeaker door phones, special decoders and switchboard: a special decoder is arranged in each room and a loudspeaker intercom is provided for each patient. Patients calling the switchboard from the loudspeaker intercom and special decoder will energise the relay to which a calling light can be connected. The nurse on duty will enter the room and operate a key switch connected to the PR terminal of the special decoder which silences the call and deletes any other calls from the same room (up to 16) from the switchboard.
2) System with special decoders and switchboard: a special decoder is arranged in each room and a button is provided for each patient. Patients calling the switchboard by pressing the button connected to the special decoder PC terminal will energise the relay to which a calling light can be connected and send a call to the switchboard at the same time. The nurse on duty will enter the room and operate a key switch connected to the PR terminal of the special decoder which silences the call and deletes the call from the room on the switchboard.

NOTE: *in the case, the call on the switchboard is signalled by repeated tones and by a "!" symbol next to the code associated to the special decoder.*

C. VIDEO SWITCH 1038/69 CONTROL FOR SURVEILLANCE CAMERA AUTO-ON
This function can be carried out by the special decoder in addition to the function 1 or 2 described above. The special decoder associated to a call module in the system will control the signals T and RES in a suitable fashion. The user can press the auto-on button on the calling module intercom 1138/2 and see the module camera. The button can be pressed repeatedly to see all the cameras connected to the 1038/69 in sequence.

NOTE: *this function is also available with special intercom 1138/18 in version 2.0 or higher.*

INSTALLATION

The special decoder presents four holes for wall fastening by means of 6 mm diameter bolts (not provided).

The decoder can be wall fitted with the wires either embedded or not.

Important: In both cases, the relay will directly control the high voltage loads. The wires connected to the relay terminal boards must pass in separate channel with respect to the rest of the system.

DUCT + WIRES
COVER
FRAME
WALL
COVER
FRAME
DUCT + WIRES
WALL

The connection to the system is obtained by means of removable terminal boards.
The connection of the electrical load to be controlled is made by means of fixed terminal boards protected by a plastic cover. The terminal boards lead to two reciprocally isolated contacts with the following names:
- NA: normally open relay contact
- NC: normally closed relay contact
- C: common relay contact

Connect buttons without potential to the terminal boards PC/0V, PR/0V, because these inputs are not isolated from the intercom system. The contact of a switch or a relay without potential must be connected to the L/0V terminal board because this input is not isolated from the intercom system.

CONFIGURATION AND PROGRAMMING

The special decoder must be configured by means of the programming terminal 1038/56 version 2.0 or higher to define the operating parameters and programmed to define the events energising the relay. Carefully fill in the memo label (7) on the cover protecting the electronic components. This will facilitate maintenance interventions.

CONFIGURATION

The device can be configured by means of the terminal either with the system powered or not powered. In this way, the decoders can be configured immediately after being installed, also before the system is finished.

- Hold the ON button pressed for at least three seconds to switch the terminal on.
- Plug the programming cable in the specific socket (11). The terminal will automatically recognise the device and the following message will appear on the display:

```
Decoder
special
```

- The data currently stored in the decoder will appear on two pages:

```
Relay: MOMENT
Toggle T: 00:00
Enabled R: NO
```

```
Source: ANY
Target: ANY
<Cancel>
<Program>
```

- Use the number pad and the "**sp**" button to edit the fields. Use the scroll buttons to move to the <Program> field and press the button ↵. The terminal will write the set data in the decoder, display the writing operation outcome, re-read the data stored in the decoder and present the data for a final check.
- Check the data.
- Disconnect the decoder programming wire and switch the terminal off by holding the OFF button pressed for at least three seconds.

The "Relay mode" field indicates the control mod of the relay, which can be toggle or bistable. In the first case, enter the energising time expressed in "minutes: seconds" in the "Toggle T" field. The "Reading enabled" field indicates automatic reading of terminal L in the event of decoder activation by means of special codes (feedback function).
The "Source" and "Destination" fields can assume the following values: Any, Column, Specific. These values indicate which source or destination address/column must be operated according to the programmed event. See the examples illustrated below.

- **Example 1**
  Configuration:
  Source = Specific
  Destination = Any
  Programming: call from main call module 1 to user 1234 in column 6
  Action: the special decoder will energise the relay whenever the main module 1 (specific) calls any user (any).

- **Example 2**
  Configuration:
  Source = Specific
  Destination = Column
  Programming: call from main call module 1 to user 1234 in column 6
  Action: the special decoder will energise the relay whenever the main module 1 (specific) calls any user in column 6 (column).

- **Example 3**
  Configuration:
  Source = Column
  Destination = Any
  Programming: door opener from user 1234 in column 6
  Action: the special decoder will energise the relay whenever a user in column 6 (column) presses the door opener button.

PROGRAMMING

The special decoder can only be programmed when the system is powered by means of the programming button (10).

CONFIGURING AND PROGRAMMING

The method for configuring and programming the decoder for the various possible applications is described below.

A. RELAY ENERGISING FOLLOWING EVENT IN THE SYSTEM

Configure the special decoder with the terminal in the following way:

- Relay mode: toggle or bistable.
- Toggle T: if toggle, set the time in minutes:seconds.
- Reading enabled: Otherwise the relay will be activated by means of special codes. Set "Yes" for automatic feedback or "No" in the other case.
- Source: set filter on source generating the event.
- Destination: set filter on destination generating the event.

Program the special decoder as follows:

- Press and release the programming button (10) and check whether the LED (10) comes on.
- Generate the first event which must cause relay operation (e.g. press the door opener button on an intercom).
- The LED will flash and stay on.
- Generate the second event which will energise the relay. If the decoder operates the relay for a single event, repeat the step above.
- The LED will flash and stay on.
- Send the special code from a call module, switchboard or special intercom only if you want to use a special code for reading terminal L. Otherwise, press the programming button.
- The LED will go out.

The special decoder will be ready to be used.

B. RELAY ENERGISING AND DE-ENERGISING FOLLOWING PRESSING OF PC AND PR BUTTONS

System with loudspeaker intercoms

Configure the special decoder with the terminal in the following way:

- Relay mode: bistable
- Toggle T: 00:00
- Reading enabled: "NO"
- Source: Column
- Destination: Any

Program the special decoder as follows:

- Press and release the programming button (10) and check whether the LED (10) comes on.
- Send a call from the switchboard to an intercom in the room.
- The LED will flash and stay on.
- Send the call from the switchboard to the same intercom again.
- The LED will flash and stay on.
- Press the programming button.
- The LED will go out.

The special decoder will be ready to be used.

System without loudspeaker intercoms

Configure the special decoder with the terminal in the following way:

- Relay mode: bistable
- Toggle T: 00:00
- Reading enabled: "NO"
- Source: Specific
- Destination: Specific

For this function, a user code which will appear on the switchboard when called must be associated to the decoder.

- Press and release the programming button (10) and until the LED (10) starts flashing.
- Release the programming button (10). The LED will stay on (10).
- Send a call to the user code to be programmed from the switchboard.
- The LED will go out.

NOTE: The special decoder is factory set to control the relay by the door opener button of any user (see "Default programming and configuration". The following operations are required to

avoid the intercoms in the system from accidentally activating the special decoder:

- Press and release the programming button (10) and check whether the LED (10) comes on.
- Send a special code which will never be used (e.g. 0JJJ) to the switchboard.
- The LED will flash and stay on.
- Enter the same special code again from the switchboard.
- The LED will flash and stay on.
- Press the programming button.
- The LED will go out.
  The special decoder will be ready to be used.

C. VIDEO SWITCH 1038/69 CONTROL FOR SURVEILLANCE CAMERA AUTO-ON

This function is required to associate the special decoder to the calling module connected to the switch 1038/69:

- Press and release the programming button (10) and until the LED (10) starts flashing.
- Release the programming button (10). The LED will stay on (10).
- Send a call to any user from the calling module to be associated.
- The LED will go out.

The special decoder will be ready to be used.

DEFAULT CONFIGURATION AND PROGRAMMING

The special decoder is factory set as follows:

- Relay mode: toggle
- Toggle T: 00:00 (=500ms)
- Reading enabled: NO
- Source: Any
- Destination: Any

The special decoder is factory set as follows:

- relay activation
  event 1: door opener button
  event 2: door opener button
- terminal L reading special code: 0999.

Consequently, if the special decoder is fitted in the system as it is and it is connected to a staircase light timer with dusk sensor, the staircase light will be switched on when any door opener button is pressed (during the night-time only).

The default values can be restored, if required, after changing the configuration and/or programming values of the system as follows:

1) Switch off the special decoder.
2) Hold the programming button pressed (10).
3) Switch the special decoder on.
4) Hold the button (10) pressed and wait for the LED (10) to come on and off.
5) Release the button (10).
6) At this point, the decoder will contain default data.

DIAGNOSTIC SIGNALS

Continuously flashing LED: non data line.

EXAMPLES OF SPECIAL DECODER USE

1) Switching staircase lights on with load less than 1 kW for 60 seconds following pressing of door opener button by any user in the column.

   This application is useful for switching the staircase lights on only when the door opener button is pressed (see attached SC124-0063 “Case 1”).

   Configure the special decoder as follows:
   - Relay mode: toggle
   - Toggle T: 01: 00
   - Reading enabled: NO
   - Source: Column
   - Destination: Any

   Program the special decoder as follows:
   - Rapidly press and release the programming button (the LED will light up).
   - Press the door opener button of an intercom of the concerned column (the LED will flash).
   - Press the same door opener button again (the LED will flash).
   - Rapidly press and release the programming button (the LED will go out).

2) Switching lights on in a common area following a call from a main call module to any user in the column with a load higher than 1 kW for 60 seconds.

   This application is useful for switching on the lights along a path leading from the main call station to the called column (see attached SC124-0063 “Case 2”).

   Configure the special decoder as follows:
   - Relay mode: toggle
   - Toggle T: 01:00
   - Reading enabled: NO
   - Source: Specific
   - Destination: Column

   Program the special decoder as follows:
   - Rapidly press and release the programming button (the LED will light up).
   - Send a call from the main module to a user in the concerned column (the LED will flash).
   - Send the same call again (the LED will flash).
   - Rapidly press and release the programming button (the LED will go out).

3) Opening/closing a gate controlled from the concierge switchboard: 0123 🔔 → opens and receives confirmation of the operation; 0456 🔔 ← closes and receives confirmation of operation; gate status querying by means of code 0789 🔔.

   This application is useful to enable only the switchboard operator to open/close the gate (see attached SC124-0063 “Case 3”).

   Configure the special decoder as follows:
   - Relay mode: bistable
   - Toggle T: 00:00
   - Reading enabled: YES
   - Source: Specific
   - Destination: Specific

   Program the special decoder as follows:
   - Rapidly press and release the programming button (the LED will light up).
   - Enter the sequence 0123 on the switchboard 🔔 (the LED will flash).
   - Enter the sequence 0456 on the switchboard 🔔 (the LED will flash).
   - Enter the sequence 0789 on the switchboard 🔔 (the LED will go out).

4) Controlling a video switch 1038/69 for surveillance camera auto-on function.

   In this application, a user can press the auto-on button on the intercom and see the picture from the three surveillance cameras in sequence (see attached SV124-0077).
   Any configuration is possible for this application.
   Program the special decoder as follows:
   - Hold the programming button pressed until the LED starts flashing.
   - Release the programming button (the LED will stay on).
   - Call any user from the calling module (the LED will go out).

5) Other applications

   Refer to the integrated system manual for all other applications not included in this manual.

SC124-0063 - Case 1

Switching staircase lights on with load less than 1 kW for 60 seconds following pressing of door opener button by any user in the column.

PR 0V PC 0V 0V L D +V 0V
NC C NA T RES NC C NA
SPECIAL SERVICE DECODER Ref. 1038/80
Bulb 230-240 V~ Max. 1KW
MAIN ~

SC124-0063 - Case 2

Switching lights on in a common area following a call from a main call module to any user in the column with a load higher than 1 kW for 60 seconds.

PR 0V PC 0V 0V L D +V 0V
NC C NA T RES NC C NA
SPECIAL SERVICE DECODER Ref. 1038/80
Bulb 230-240 V~ Max. 1KW
MAIN ~
RELAY ~ (not supplied)

SC124-0063 - Case 3

Opening/closing a gate controlled from the concierge switchboard: 0123 🔔 → opens and receives confirmation of the operation; 0456 🔔 → closes and receives confirmation of operation; gate status querying by means of code 0789 🔔.

PR 0V PC 0V 0V L D +V 0V
NC C NA T RES NC C NA
SPECIAL SERVICE DECODER Ref. 1038/80
Motor 230 V~ Max. 1KW
M
MAIN ~

INDOOR EQUIPMENT

SECTION 5 CONTENTS

DIGIVOICE SYSTEM

DIGIVOICE

SECTION 5 CONTENTS

DIGIVOICE SYSTEM

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DIGIVOICE/4+N VOICE ADAPTER Ref. 1038/67

GUARD DOOR SWITCHBOARD STATION Ref. 1038/40

260 mm
220 mm

GENERAL

Guard door switchboard station Ref. 1038/40 is designed specifically for the DIGIVOICE system, where it is used for:

- Making and receiving calls to and from apartment stations, with provision for storing any unanswered calls in memory.
- Day/Night concierge service (with or without intercepting calls from main entrance panels to apartment stations).

Guard door switchboard station Ref. 1038/40 is part of the SCAITEL line and is produced in a single version which can be adapted for tabletop or wall mounting (see the section covering installation).

COMPONENTS

1 Switchboard station body.
2 Graphic display.
3 Multi-function keypad.
4 Ringer volume control.
5 Handset.
6 Handset cradle
7 Tabletop mounting support.
8 Wall mounting holes (4 off).
9 Seats for video module 1732/1 wall bracket (two pairs).
10 Connecting cable.
11 Cable channel.
12 Retainer catch.
13 Self-adhesive feet.
14 Base plate.
15 Connector housing door.
16 Printer/PC port.
17 Connector for programming terminal 1038/56.
18 Display contrast control.
19 ON/OFF button with green LED.
20 DAY/ NIGHT service button with green LED.
21 Open door scroll key with red LED.
22 Apartment station call button.
23 Intercept zone scroll key with green LED.
24 Queue code delete key.
25 Call from queue key with red LED.
26 Queue scroll key.
27 Programmable function keys.
28 SHIFT key. Used to select second key function.
29 Clock key.
30 Main entrance door lock release key.
31 Secondary entrance door lock release key.
32 Voice channel switchover key: line to main entrance panel.
33 Error correction key.
34 Voice channel switchover key: main entrance panel to apartment station.
35 Voice channel switchover key: line to apartment station.
36 Voice channel switchover key: line 1/ line 2.
37 Alphanumeric keypad. Used to enter call codes, door lock release codes, self-activation codes and special service codes.

48
49
52
52
10 WAYS
53
52
12 WAY
11
51
50
54

SPECIFICATIONS

Space requirements:

Dimensions (mm):	260 x 220 x 70

ELECTRICAL PROPERTIES

Power supply voltage range (+V; 0V):	**16 to 25.2 V dc**
Power supply voltage range (+F; 0F):	**30 to 36 V dc**
Max. current draw (+V; 0V):	**450 mA**
Consumption in load units (LU):	**40 LU**

Drive signal outputs:

Maximum applicable voltage:	**30 V dc**
Maximum current draw rating:	**10 mA**
Output resistance (typical):	**100 Ohm**
Service temperature range:	**- 5°C to 45°C**

DESCRIPTION OF COMPONENTS

GRAPHIC DISPLAY

The guard door switchboard station is provided with a backlit graphic display featuring five lines with 10/20 characters each.
During active service, characters shown on the display are divided into zones as follows:

```
▶eeefiiii🔔
▶eeefiiii🔔
IIII! dddd
dd/mm/yyyy HH:MM:ss
CCCC > T-ppp nn*rrrr!
```

The first and second lines are identical: the first indicates the status of voice line 1, while the second indicates the status of voice line 2 as explained below.

Zone ▶ (1 character)
This zone shows the character ▶ on the display line currently being managed by the switchboard station.

Zone `eee` (3 characters)
This zone shows the code of the main entrance panel currently in communication with the switchboard station or waiting to be connected to it.

Zone `iiii` (4 characters)
This zone shows the code of the apartment station called by the main entrance module, or the code of the apartment station called by the switchboard station.

Zone `f` (1 character)
This zone shows a symbol indicating the type of voice connection. This symbol may be:

...

when main entrance panel **eee** has called apartment station **iiii** and the switchboard station has intercepted the call but has not yet answered it;

↰

when the switchboard station is in communication with the main entrance panel identified by code **eee**;

↕

when the switchboard station is in communication with the apartment station identified by code **iiii**, and;

↱

when main entrance panel **eee** is in communication with apartment station **iiii**.

Zone 🔔 (1 character)
This zone may contain the symbol 🔔, which indicates that apartment station **iiii** intercepted by the switchboard station has not yet been called by the attendant. If the switchboard attendant presses the call button, apartment station **iiii** will be called and the symbol 🔔 disappears from the display.

Zone IIII (4 characters)
This zone shows the code for an apartment station that has called the switchboard station. If the switchboard attendant does not take the call, the display field is cleared and the call is stored in memory.

Zone ! (1 character)
This zone may contain the symbol **!**, which indicates that apartment station **IIII** has made a panic alarm call to the switchboard station.

Zone dddd (4 characters)
This is the zone used for codes entered by the switchboard attendant: call codes, special codes, entrance module codes used for door lock release of self-activation, etc. This zone can be cleared by mean of the **X** key.

Zone dd/mm/yyyy hh:MM:ss (20 characters)
This zone normally displays date and time. It is also used temporarily to indicate the zone assignments transferred from other switchboard stations.

Zone CCCC (4 characters)
This zone shows the switchboard station code. It is also used temporarily to display the codes for other switchboard stations during the transition between Day and Night service.

Zone > T-ppp (6 characters)
This zone is used for door-open signaling and to indicate that the caps-lock function has been activated to enter letter codes.
T designates the type and **ppp** the code of the entrance module at which the door is open.
Field **T** will show:
- **P** for main entrance panels
- **S** for secondary entrance panels

The character **>** indicates that the CAPS-LOCK function is active (see the paragraph headed 'Call to apartment stations').

Zone nn*rrrr! (8 characters)
This zone is used to display the calls or panic alarm signals received from apartment stations which have been stored in the switchboard station's memory:
- **nn** is the total number of calls or alarms in memory.
- **rrrr** is the code for the apartment station in memory.
- ***** indicates that code **rrrr** was the first to be stored in memory.
- **!** indicates that apartment station **rrrr** made a panic alarm call.

This zone is also used to display confirmation prompts when the attendant attempts to delete codes from memory, and to indicate the status of sensors connected to special decoders.

KEYPAD

The keypad features dual function number/letter keys used to enter apartment station call codes, special codes, door lock release codes and main entrance panel self-activation codes.
To enter a letter, hold down the SHIFT key and press the appropriate number/letter key.
The keypad also provides a number of function keys whose operation will be described in detail in the following paragraphs.

RINGER

The electronic warble tone ringer incorporates provision for adjusting volume to MINIMUM, MEDIUM or MAXIMUM by means of lever (4) located on the front of handset cradle section (6).

PCVOICE v1.0
urmet DOMUS
Setup 38
39
Chiama nome
Aggiungi 40
Cancella
Modifica 41
43 42

Stampante
44
Pulisci Stampa Salva
47 46 45

TYPES OF SERVICE

The guard door switchboard station's operating mode depends on how it is configured at the time of installation and on its current status. Up to five switchboard stations can be installed in the system. Depending on their configuration, these switchboard stations can operate in parallel, or can be assigned specific sections of the system.
A switchboard station can store two user code ranges in memory.
Together, these two ranges constitute a switchboard zone assignment.
The switchboard station can intercept calls from main entrance panels only if they are directed to apartment stations in its assigned zone.
In addition, the switchboard station can intercept calls made simply by pressing the call button, or addressed to the switchboard station's code. Calls from apartment stations are intercepted only if the stations concerned belong to the switchboard's assigned zone. All switchboard stations in the system can be assigned the same zones, in which case they operate in parallel. Alternatively, switchboard stations may be assigned different zones or zones that share certain codes.

Switchboard station operating modes are described below.

SWITCHBOARD STATION OFF

When the switchboard station is off, it behaves as if it were not present in the system.
Calls originating from main entrance panels are sent directly to the apartment stations; if the latter belong to the zone assigned to another switchboard station, the calls may be intercepted by it. Calls originating from apartment stations are not put through; again, if the apartment stations involved belong to the zone assigned to another switchboard station, the calls may be intercepted by it.

SWITCHBOARD STATION ON

When the switchboard station is turned on, it can be set up to operate in either DAY or NIGHT service.

NIGHT SERVICE

In this operating condition, concierge service is disabled and calls made from the main entrance panels are sent directly to the apartment stations; if the latter belong to the zone assigned to another switchboard station, the calls may be intercepted by it. Calls directed to the code programmed in the switchboard station are intercepted by the station if the latter is configured to do so.
The switchboard station can call any apartment station.
The switchboard station will normally receive calls from the apartment stations only if they belong to its assigned zone. If desired, the switchboard attendant can take these calls. If the attendant does not answer the calls, they will be stored in memory. The switchboard station can also be configured so that calls originating from apartment stations are completely ignored. In this case, the switchboard station will neither ring nor store the calls in memory.

DAY SERVICE

In this operating condition, the switchboard station can be programmed for three different modes: MODE A, MODE B, and MODE C. All switchboard stations in the system must be programmed for the same mode (A, B or C).

Mode A - Call interception enabled

In this mode, the switchboard station provides concierge service, intercepting calls from main entrance panels to apartment stations.
Calls belong to the zones for which the switchboard station is configured will be intercepted, as well as all calls to code 0 (i.e., calls made simply by pressing the entrance module call button) and calls directed to the code programmed in the switchboard station. Other calls are sent directly to the apartment stations; if the latter belong to the zone assigned to another switchboard station, the calls may be intercepted by it. The switchboard station can call any apartment station.
The switchboard station will normally receive calls from the apartment stations only if they belong to its assigned zone. If desired, the switchboard attendant can take these calls. If the attendant does not answer the calls, they will be stored in memory. The switchboard station can also be configured so that calls originating from apartment stations are completely ignored. In this case, the switchboard station will neither ring nor store the calls in memory.

Mode B - Call interception NOT enabled

This operating mode is similar to that described above for NIGHT service. The switchboard station does not receive calls from outside the building, but can call the apartment stations and receive calls from them.

Mode C - Calls from main entrance panels disabled

In this operating mode, calls cannot be put through from any of the main entrance modules. The switchboard station intercepts calls from the main entrance panels in the same way as described for Mode A; in this case, however, the switchboard station does not ring and puts the main entrance panel in busy status to indicate that the operation cannot be carried out. Operation as regards calls to apartment stations is as described for Mode A.

APARTMENT STATION Option

This option can be selected during configuration in cases where the switchboard station operates in NIGHT service and in DAY A or DAY B service.
The switchboard station will operate as if it were an ordinary apartment station, using the code for which it was configured.

OPERATING INSTRUCTIONS

ACTIVATION AND DEACTIVATION

Case 1: Switchboard station without access password

The switchboard station is activated by pressing the ON/OFF button. The display will show the following message for 3 seconds:

```
REL1.0
SYSTEM OK
---------
```

The number of the software release is shown at the top of the display. After 3 seconds or when the call button is pressed, the switchboard station will be activated in the operating mode it was in the last time it was turned off.
If the switchboard station is in DAY service, LED (20) will be on. If the switchboard station is in NIGHT service, LED (20) will be off. In both cases, the display will show the following message when the switchboard station is not in use:

```
23/05/2000   08:10:54
0001
```

Where, 0001 is the switchboard station code.
The switchboard station display features LED backlighting with a 15” timeout. Backlighting is activated when the handset is picked up, a key is pressed, or a call or alarm signal is received.
To turn off the switchboard station, hold down the SHIFT key (28) while pressing the ON/OFF button (19).

Note: *If the switchboard station has never been configured, the message “CONFIGURATION REQUIRED” will appear on the display instead of “SYSTEM OK”.*

Case 2: Switchboard station with access password.

The switchboard station is activated by pressing the ON/OFF button. The display will show the following message for 3 seconds:

```
REL1.0
SYSTEM OK
---------
ENTER PASSWORD
```

The number of the software release is shown at the top of the display. Enter the access password programmed by the installer, which will be shown as a sequence of asterisks on the bottom line of the display. Then press the call button (22). The switchboard station will be activated in the operating mode it was in the last time it was turned off.
If the password is incorrect or if 1 minute has passed since the ON/OFF button (19) was pressed, the switchboard station will be deactivated.
If the switchboard station is in DAY service, LED (20) will be on. If the switchboard station is in NIGHT service, LED (20) will be off. In both cases, the display will show the following message when the switchboard station is not in use:

```
23/05/2000   08:10:54
0001
```

Where, 0001 is the switchboard station code.
The switchboard station display features LED backlighting with a 15” timeout. Backlighting is activated when the handset is picked up, a key is pressed, or a call or alarm signal is received.
To turn off the switchboard station, hold down the SHIFT key (28) while pressing the ON/OFF button (19).

Note: *If the switchboard station has never been configured, the message “CONFIGURATION REQUIRED” will appear on the display instead of “SYSTEM OK”.*

DAY/NIGHT SERVICE CHANGEOVER

To change from DAY to NIGHT service, press the SHIFT key (28) together with the DAY/NIGHT service button (20). How changeover takes place will depend on the type of installation.

Case 1: System with a single switchboard station

The switchboard station passes to night service mode and calls made from the main entrance panels are sent directly to the apartment stations.
The switchboard station intercepts calls from apartment stations if they belong to the zone assigned to it.

Case 2: System with several switchboard stations in parallel

Where there are two or more switchboard stations operating in parallel (i.e., when the same zone is assigned to all switchboard stations), the switchboard station passes to night service mode and calls made from the main entrance panels are:
- Intercepted by the other switchboard stations operating in day service mode if they belong to the zone assigned to them.
- Sent directly to the apartment stations if the latter do not belong to the zone assigned to the other switchboard stations operating in day mode, or if all switchboard stations are in night mode.

The switchboard station intercepts calls from apartment stations if they belong to its assigned zone.

Case 3: Multiple switchboard stations with specific zone assignments

Where there are two or more switchboard stations with specific zone assignments (i.e., where each switchboard station is assigned to a different zone), the switchboard attendant can:
- Pass to night service mode without transferring management of his zone to another switchboard station. In this case, calls made from the main entrance panels are intercepted by other switchboard stations operating in day service mode if they belong to the zone assigned to them, or are sent directly to the apartment stations if the latter do not belong to the zone assigned to the other switchboard stations operating in day mode, or if all switchboard stations are in night mode. Calls originating from apartment stations are not put through, or are intercepted by the other switchboard stations responsible for the zone involved.
- Pass to night service mode and transfer management of his zone to another switchboard station in the system. In this case, the latter switchboard station will be responsible for its own zone and for the transferred zone, both as regards calls made from main entrance panels and as regards calls originating from apartment stations. LED (23) on the receiving switchboard station will go on to indicate that zones belonging to other switchboard stations are being handled (see below).

Example: System with three switchboard stations identified by codes 1, 2, and 3. If the attendant of switchboard station 1 wishes to pass to night service mode and thus presses SHIFT-DAY/NIGHT (28) (20), the switchboard station will display the following message:

```
DIVERT TO S.BOARD:
----
```

If the attendant does not wish to transfer the zones assigned to his station, he presses the call button (22) and the switchboard station passes to night service mode.

If the attendant wishes to transfer his zones to another switchboard station, he presses key (23) as many times as needed to select the desired switchboard station. For instance, if key (23) is pressed twice, the display will show:

```
DIVERT TO S.BOARD:
0003
```

If the attendant then presses the call button (22), the switchboard station will pass to night service mode and its assigned zones will be transferred to switchboard station 3. In this case, switchboard station 1 will not intercept calls originating from apartment stations.

NIGHT/DAY SERVICE CHANGEOVER

To change from NIGHT to DAY service, press the SHIFT key (28) together with the DAY/NIGHT service button (20) on the switchboard station. The switchboard station will immediately resume control of its assigned zones. Thus, if the switchboard attendant transferred his zones to another switchboard station upon passing to night service mode, the transfer will end at this time.

VIEWING ZONE ASSIGNMENTS

As described above, each switchboard station is assigned a zone consisting of two ranges of apartment station codes. The switchboard station can intercept calls made from main entrance panels and directed to apartment stations whose codes are included in one of these two ranges. Likewise, it can intercept calls originating from apartment stations whose codes are included in one of the two ranges.
To view the zone assigned to a switchboard station, press key (23) under normal operating conditions.

Example:

```
0002-9999 J000-JJJJ
0003
```

This means that the switchboard station identified by code 0003 is responsible for the user codes between 2 and 9999 and between J000 and JJJJ.

In systems with several switchboard stations that do not operate in parallel, if a switchboard station transfers its zones to another upon passing to night service mode, LED (23) on the receiving station will go on. To view the zones received by this station and the codes for the switchboard stations which transferred them, press key (23) several times in succession. For example, if the switchboard station identified by code 0003 receives the zone consisting of codes A000-AJJJ + C000-D000 from switchboard station 0001, pressing key (23) on switchboard 0003 twice will cause the display to show:

```
A000-AJJJ C000-D000
0003
```

This information will be displayed for a maximum of 10 seconds.

CALLS TO/FROM APARTMENT STATIONS

The switchboard station can make and receive calls to and from apartment stations.

Calls to apartment stations

To call an apartment station, the switchboard attendant must **pick up the handset**, dial the apartment station code using the numeric keys (37), and press the call button (22). If incorrect codes are entered, they can be deleted by pressing key (33). To enter a letter, hold down the SHIFT key (28) and press the appropriate number/letter key (37).
To call the user identified by code “1C26”, for example, press keys “1”, ”SHIFT-3”,”2”,”6” in sequence and then press the call button (22).
To enter alphanumeric codes without having to press two keys at the same time (SHIFT + number), one of the three function keys F1, F2 and F3 can be programmed for the CAPS-LOCK function. For example, if key F1 is programmed for this function, user code 1C26 can be dialed by pressing “1”,”F1”,”3”,”2”,”6” in sequence. When key F1 is pressed, the symbol ▶ will appear on the display to indicate that the function is active, and will remain so only for the next key pressed. The entered code is shown on the third line of the display. If the code 123A is dialed, for example, the display will show:

```
                123A
23/05/2000  08:10:00
0001
```

The information on the third line will disappear when the call is sent.

Note: *Calls will be sent only with the handset off-hook, and if no other apartment stations are connected.*

Calls from apartment stations

The switchboard station handles calls originating from apartment stations independently of its service mode (DAY/NIGHT), unless this function has been disabled during programming.
The switchboard station will store the calling user’s code in memory if the attendant does not pick up the handset within 10 seconds of the call. When a code is stored in memory, the switchboard station will send a courtesy tone to the calling apartment station to indicate that the queuing feature has been activated.

When the call is received, the ringer will be activated for approximately 1 second even if the switchboard station line is busy, and the code of the apartment station which made the call will appear on the display as shown in the following example:

```
1634
23/05/2000  08:10:00
0001
```

If the handset is picked up within 10 seconds, the device will be ready for communication between the switchboard station and the apartment station, and the display will show:

```
▶     ↱1634


23/05/2000  08:10:00
0001
```

This indicates that the switchboard station is connected to apartment station 1634 on voice line 1. The display will be cleared when the call ends.

CALL STORAGE IN MEMORY

The switchboard station can store unanswered calls from apartment stations in its memory.

Storage procedures

If the switchboard attendant does not answer a call from an apartment station within 10 seconds, the calling station’s code will be automatically queued, i.e., stored in switchboard station memory. The internal apartment station call memory is maintained even with power off. The switchboard station can store up to 50 apartment station call codes.
The keypad is provided with three dedicated keys (24, 25, 26) for managing queued calls.

Stored call codes and the total number of stored calls (from ‘1’ to ‘49’, or ‘xx’ to indicate that the memory is full) are displayed on the bottom line, as in the example below:

```
23/05/2000  08:10:00
0001         10*5748
```

Here, the display indicates that there are 10 calls in memory, and the first call received was from apartment station ‘5748’. Calls from apartment stations are handled independently of the switchboard station’s service mode (DAY/NIGHT) unless this feature was disabled during programming. Queue memory status is indicated by LED (25), which will go on if there are one or more calls in memory.
If the memory is full, the display will show “XX” instead of the number of calls. As any calls arriving after the fiftieth cannot be stored, it is advisable to clear the memory using the delete or call keys.

QUEUED CALLS

Viewing codes in memory

Codes for queued calls can be viewed using the memory scroll key (26). For example, if calls from apartment stations 1234 and A100 have been queued, the display will show:

```
23/05/2000  08:10:00
0001          02*1234
```

When key (26) is pressed once, the display will show:

```
23/05/2000  08:10:00
0001          02 A100
```

Pressing key (26) again will cause the earlier display to return (*1234).

After selecting the code as described above, the switchboard attendant can either call the selected apartment station or delete its code from the queue memory.

Calling a queued apartment station

To call a queued apartment station, press the Call from Queue key (25).

Note: *Calls to queued apartment stations can be made only with the handset off-hook, and no other apartment stations are connected.*

Deleting a call from queue memory

The switchboard attendant can delete calls stored in the queue memory one at a time until the memory is empty and LED (25) goes off. If call code A100 is to be deleted, for example, the display will show:

```
23/05/2000  08:10:00
0001          02 A100
```

When key (24) is pressed, the following message will appear on the display:

```
23/05/2000  08:10:00
0001        OK
```

The deletion operation is concluded by pressing key (24) again within 3 seconds. If the key is not pressed, the entire operation will be ignored.

Note: *Queued calls are automatically deleted from memory in the following cases:*
- *The switchboard station calls the queued apartment station, and the latter answers.*
- *The apartment station has also queued a call at another switchboard station in the system. This second switchboard station calls the queued apartment station, and the latter answers.*
- *The apartment station has also queued a call at another switchboard station in the system, and this second switchboard station deletes the queued call from memory.*

PANIC ALARM CALLS

The switchboard station can receive panic alarm calls from apartment stations programmed for this function.
Panic alarm calls are handled in the same way as any other call originating from apartment stations, except that they are identified by a prolonged ringing tone at the switchboard station and the calling station's code will be followed by an exclamation point on the display.
The queue memory LED will flash to indicate that there are one or more panic alarm calls in memory. In all other respects, queued panic alarm calls are handled in the same way as ordinary apartment station calls. Example: panic alarm call from apartment station 1634:

```
1634!
23/05/2000  08:10:00
0001
```

If the handset is picked up within 10 seconds, the device will be ready for communication between the switchboard station and the apartment station, and the display will show:

```
▶     ↱1634

23/05/2000  08:10:00
0001
```

This indicates that the switchboard station is connected to apartment station 1634 on voice line 1. The display will be cleared when the call ends.
If the switchboard attendant does not pick up the handset within 10 seconds, the panic alarm call will be stored in queue memory:

```
23/05/2000  08:10:00
000101*1634!
```

LED (25) will flash.

CONCIERGE SERVICE

When the switchboard station is configured for Day service in mode A, it can intercept calls from main entrance panels to apartment stations in its assigned zone, as well as make and receive calls to and from apartment stations.
Upon receiving a call from the main entrance panel, the switchboard station activates the ringer for the programmed period, using a distinctive ringing tone to distinguish such calls from those made from an apartment station. The switchboard station display will show the entrance panel code (from 001 to JJJ) and the code dialed by the panel user (from 0000 to JJJJ). For example, if main entrance panel 100 calls apartment station B123 and the switchboard station intercepts the call, the display will show:

```
▶100-B123

23/05/2000  08:10:00
0001
```

If the switchboard station is combined with a video module, the latter will be activated. When the handset is picked up, the switchboard station automatically connects the voice line with the main entrance panel:

```
▶100↰B123🔔

23/05/2000  08:10:00
0001
```

The attendant speaks to the caller and, if appropriate, can call apartment station B123 or another apartment station. The "bell" symbol indicates that the switchboard station can call code B123 directly by pressing call button (22), without entering the code. The display will show:

```
▶100↱B123

23/05/2000  08:10:00
0001
```

If the called apartment station answers, the attendant can put the main entrance panel in direct communication with the apartment station by pressing key (34). The display will show:

```
▶100↕B123

23/05/2000  08:10:00
0001
```

At the end of the conversation (i.e., when the apartment station doorphone is hung up), the display will be cleared.
While using the concierge service to handle a call between a main entrance panel and an apartment station, the switchboard station can put the apartment station on hold and switch the voice line to the main entrance panel by pressing key (32), put the main entrance panel on hold and switch the voice line to the apartment station by pressing key (35), or reestablish direct communication between the main entrance panel and the apartment station by pressing key (34).

Example: Handling calls with a single voice channel

Main entrance module 001 calls apartment station 123C. The switchboard station intercepts the call and rings the apartment station. The display shows:

```
▶001↱123C

23/05/2000  08:10:00
0001
```

At this point, the switchboard attendant can establish direct communication between the main entrance panel and the apartment station by pressing key (34). The display will show:

```
▶001↕123C

23/05/2000  08:10:00
0001
```

Alternatively, the switchboard attendant can press key (32) to talk to the caller at the main entrance panel again (32).
In general, once the switchboard attendant has intercepted a call from a main entrance panel and called the apartment station, he can activate the attendant barge-in feature at any time. In other words, the attendant can talk to the caller at the entrance panel by pressing key (32), talk to the apartment station by pressing key (35), or, alternatively, establish direct communication between the entrance panel and apartment station by pressing key (34).

Note: All operations must be performed with the handset off-hook.

VOICE CHANNEL SWITCHOVER KEYS

Depending on installation, the switchboard station can manage 1 or 2 voice channels 'simultaneously'. Status of the two voice channels is shown on the switchboard station display: the first display line indicates status of voice channel 1, while the second line refers to voice channel 2. The symbol ▶ will appear at the beginning of the first or second display line to indicate which of the two voice channels is currently being used by the switchboard station.
When the switchboard station has calls on both voice channels, it can switch service from one channel to the other using key (36).

Example: Handling calls with two voice channels

In systems with two voice channels, the switchboard station automatically selects the channel to be used for a call. However, if calls are received from two different main entrance panels, the switchboard attendant can handle both 'simultaneously' by switching from one entrance panel to the other. The switchboard station can also establish communication between the two entrance panels and the respective apartment stations, and then use the barge-in feature with each call as described in the previous example. Key (36) is used to switch between voice channels.
Say, for example, that the switchboard station has intercepted a call from main entrance panel 001 to apartment station 1000 in line 1, and is talking to the caller at the entrance panel. The display will show:

```
▶001↰1000🔔

23/05/2000  08:10:00
0001
```

At this point, a visitor at main entrance panel 002 calls apartment station 2000 on line 2, and the switchboard station intercepts the call. The display will now show:

```
▶ 001↰1000🔔
  002-2000

23/05/2000  08:10:00
0001
```

The switchboard attendant can choose between three different operations:

1) The attendant can cut off communication with main entrance panel 1 by hanging up the handset. The display will show:

```
▶002-2000

23/05/2000  08:10:00
0001
```

The attendant can then pick up the handset and talk to the visitor at main entrance panel 2; the display will show:

```
▶ 002←┐2000🔔

23/05/2000  08:10:00
0001
```

2) The attendant can press key (36) to put main entrance panel 1 on hold and switch the line to main entrance panel 2. The display will show:

```
  001←┐1000🔔
▶ 002←┐2000🔔

23/05/2000  08:10:00
0001
```

3) The attendant can establish direct communication between entrance panel 1 and the apartment station as described above, and then switch the line to main entrance panel 2 by pressing key (36). The display will show:

```
 001 ↕ 1000
▶ 002←┐2000🔔

23/05/2000  08:10:00
0001
```

DOOR LOCK RELEASE FUNCTIONS

The switchboard station can release locks at any door associated with a main or secondary entrance panel at any time. This feature is called 'PRIORITY DOOR LOCK RELEASE'.

Main entrance door lock release

Main entrance door locks can be released under the following two conditions:

- **Following a call from a main entrance panel:** When the switchboard station is in communication with a main entrance panel, the door can opened simply by pressing the main entrance door lock release key (30).
- **At any other time:** To open door, enter the main entrance panel code (1-JJJ) and press the main entrance door lock release key (30).

Secondary entrance door lock release

To open a secondary entrance door, enter the secondary entrance panel code (1-JJ) and press the secondary door lock release key (31).

Entrance door open LED

The switchboard station is provided with a LED to indicate main and secondary entrance door status.
The LED can assume the following operating states:

- **LED off**: Main and secondary entrance doors are closed.
- **LED on**: One main or secondary entrance door is open.
- **LED flashing**: Two or more main or secondary entrance doors are open.

The LED will go on only if doors remain open for 30 seconds or longer.
The code of the last entrance panel that signaled a 'door open' condition will appear on the display as shown in the following example:

```
23/05/2000  08:10:00
0001P-004
```

Where, 'P-004' designates 'main entrance panel 004'. Secondary entrance panels are identified by the letter 'S' (e.g., 'S-00A').
Codes for other entrance panels which have signaled a 'door open' condition can be viewed by pressing key (21). This key is active only when the door open LED is flashing.

Note: *The switchboard station can store the 'door open' condition in memory for a maximum of 20 entrance panels.*

VOICE LINE STATUS DISPLAY

The switchboard station display indicates the status of the voice line (or of both lines for two-channel systems) at all times. The first display line indicates status of voice channel 1, while the second line refers to voice channel 2. As this information concerns only the section between main and secondary entrance panels, there is no way of knowing whether the lines between secondary entrance panels and decoders are engaged.
Voice channels 1 and 2 can assume the following states:

- **Free**: No call in progress. No line status information will be shown on the display.
- **Busy**: A call is in progress on the voice channel. This call cannot be interrupted, because the programmed engaged time (which establishes the minimum duration of a call) has not yet been reached. The display will show the word 'BUSY.
- **Engaged**: A call is in progress on the voice channel. This call can be interrupted, as it has lasted longer than the programmed engaged time. The display will show the symbol ↕.

When a voice channel is busy or engaged, the switchboard attendant is not provided with information concerning which devices are involved in the call. When the channel is in busy status, moreover, communication between the two devices cannot be interrupted. In engaged status, communication can be interrupted following a call from the switchboard attendant.
Example: A main entrance panel calls an apartment station which is not in the switchboard station's assigned zone on voice channel 1:

```
BUSY

23/05/2000  08:10:00
0001
```

If the call lasts longer than the programmed engaged time:

```
↕

23/05/2000  08:10:00
0001P-004
```

If another main entrance panel calls the switchboard station and there are two voice lines:

```
        ↕
▶002-2000

23/05/2000  08:10:00
0001P-004
```

The switchboard attendant can then pick up the handset and talk with the visitor at main entrance panel 002 without interrupting the call on voice channel 1.

DIALOG BETWEEN TWO SWITCHBOARD STATIONS

A switchboard station can call another switchboard station using the same procedures employed for calls to apartment stations. The code to dialed in this case is the one programmed in the called switchboard station. Display messages differ slightly from those used when calling an apartment station or receiving calls from a main entrance panel.
Example: Switchboard station 0001 calls switchboard station 0002.
The following information will be shown on the respective displays:

```
▶    ↱0002

23/05/2000  08:10:00
0001P-004
```

```
 0001-0002

23/05/2000  08:10:00
0001
```

Note: *Dialog can take place between two switchboard stations only if neither is engaged in another voice call, and neither has intercepted a call from a main entrance panel and an apartment station and has thus established direct communication between the two. If the switchboard station receiving the call is not free, a busy indication will appear on the calling switchboard station's display (see OTHER DISPLAY MESSAGES).*

SELF-ACTIVATION FUNCTION

The switchboard station can activate the main entrance modules by means of the self-activation function. In other words, the switchboard attendant can establish video and voice connection with a main entrance module without first receiving a call from that module.
However, one of the function keys F1 through F6 must first be programmed for this purpose.
Example: Key F1 is programmed for the self-activation function and the switchboard attendant wishes to establish communication with main entrance panel 003. To do so, the attendant must enter the sequence '0','0','3','F1' with the handset on-hook. The information appearing on the display will be the same as if main entrance panel 003 had called the switchboard station.

Note: *Attempts to use the self-activation function may have no effect if the entrance panel concerned is already in use, or if other calls would have to be cut off before the programmed engaged time has lapsed.*

SPECIAL SERVICE CODES

The switchboard station can manage electric actuators using special services decoders Ref. 1038/80.
For example, stair lights can be turned on or off by entering a special code assigned to the stair light actuator. Special codes must be preceded by pressing number key '0' and followed by pressing the call button (22).
Thus, to activate the service associated with code 356, press number keys 0,3,5,6 in succession and then press the call button (22).
This procedure can be simplified by programming the switchboard station function keys. A maximum of six frequently used special services can be activated in this way if all function keys F1 through F6 are assigned to this type of use.
Each time a function key is pressed, the switchboard station will automatically dial and transmit the code assigned to the key. For details of function key programming, see the section covering switchboard station configuration.

SENSOR MONITORING

The switchboard station can be connected to a special services decoder (Ref. 1038/80) in order to display the status of a sensor.
For example, the switchboard attendant can monitor garage light status by entering the code assigned to the decoder used for this purpose (e.g., decoder '340' connected to a photodetector) and put through the call. After this operation, the switchboard display will indicate one of the following conditions:

```
23/05/2000  08:10:00
0001              ON
```

```
23/05/2000  08:10:00
0001             OFF
```

Where, 'ON' means that the lights are on, while 'OFF' indicates that they are off. In order to attract the attendant's attention, the display is accompanied by a one-second audible signal.
The 'ON' and 'OFF' messages will be displayed for approximately 5 seconds, after which the queue memory status will return to the display.

COMBINED ACTUATOR CONTROL AND FEEDBACK MONITORING

The two capabilities described above can be combined in order to:
- Control an actuator, and
- Receive feedback confirming that the desired actuator status has been achieved.

In this way, for example, the switchboard attendant can turn on the stair lights and check that they are on by means of the switchboard station display, where the word 'ON' will appear for 5 seconds.

SPECIAL FUNCTIONS

DATE/TIME ADJUSTMENT

The data and time setting procedure is activated by pressing the SHIFT (28) and CLOCK (29) keys simultaneously. The display will show:

```
DD/MM/YY
--/--/--
23/05/2000  08:10:00
0001P-004
```

The first line indicates the format of the date to be entered. The date can be entered in the spaces represented by dashes on the second line. To confirm the current date shown on the display, simply press the call button (22). To change the date, enter month, day and year and then press the call button (22).
The display will then prompt the attendant to enter the time:

```
HH/MM
--/--
23/05/2000  08:10:00
0001P-004
```

Enter the correct hour and minute and confirm with the call button (22).
After the time setting is confirmed, the word "WAIT" will appear on the second line of the display approximately 3 seconds. The switchboard station will then resume normal operation.

KEYPAD LOCK ACTIVATION/DEACTIVATION

Keypad operations can be locked when the switchboard station remains unattended. To lock the keypad, press the SHIFT key (28) and the main entrance door lock release key (30) simultaneously.
In lock conditions, the switchboard station will refuse all commands for the keypad, including DAY/NIGHT service changeover, and the display will show "XXXX" in the user code field. To deactivate the keypad lock, repeat the operation described above.

Note: *The keypad will remain locked even if the switchboard station is turned off and back on.*

CALL REROUTING

Using adapter circuit 1038/70 and a telephone interface or PABX, the calls received by the switchboard station can be rerouted to a standard or cordless telephone. For adapter circuit installation, see the section covering installation.
A function key must be programmed to activate and deactivate the call rerouting feature.
Example: If key F2 was programmed for the call rerouting function (function 4), the display will show the following message when the key is pressed:

```
>TEL
23/05/2000  08:10:00
0001
```

From this time onwards, the attendant can leave the switchboard station and receive calls made to it from apartment stations or entrance panels directly on his cordless phone. If a call is received from a main entrance panel, the attendant can also open the door by dialing R35 (systems equipped with PABX) or R5 (systems equipped with telephone interface).
Upon returning to the switchboard station, the attendant must press key F2 again to disable the call rerouting function.

OTHER DISPLAY MESSAGES

- Call to a nonexistent apartment station: the display will show:

```
ERR7
23/05/2000  08:10:00
0001
```

- Call cannot be made because it would interrupt another call before the end of the programmed engaged time: the display will show:

```
BSY
23/05/2000  08:10:00
0001
```

  This message will remain until the programmed engaged time for the call in question has ended.
  This message will also appear if a call between two switchboard stations cannot be made.
- Data line not connected or short circuited:

```
ERROR
DATA LINE
23/05/2000  08:10:00
0001
```

- The message will remain on the display for as long as the problem persists.

USING A PRINTER

The switchboard station is provided with an RS232-C serial port for connection to a printer (see the section headed 'Installation').
The following types of message can be printed once the print function has been configured and the printer has been correctly connected to the switchboard station. All messages will be provided with a date/time stamp:
- **Configuration report**: This report is printed at the end of switchboard station configuration, and indicates all settings established for the station.
- **Door lock release messages**: Printed when a door lock is released.
- **Attendant messages**: Printed following operations carried out by the switchboard attendant.

Messages are listed below together with examples.

Door lock release messages:

- Door opened by entering door lock release code at entrance module.
- Door opened by command from switchboard station.
- Door opened by command from apartment station.
- Door opened by pressing lobby pushbutton.
- Door opened through postal lock release.
- Door opened by Magikey.
- Door opened through proximity sensor.

Examples:
Door at secondary entrance panel 12 from apartment station 1001:

```
23/05/2000 08:10:00
SECONDARY 12     [LKRL]
IND.SET 1001
```

Door at main entrance panel 001 opened from switchboard station 0001:

```
23/05/2000 08:10:00
MAIN 001 [LKRL]
0001
```

Door at main entrance panel 10A opened by entering door lock release code 12432389:

```
23/05/2000 08:10:00
MAIN 10A [LKRL]
LKRL CODE 12432389
```

Attendant messages:

- Switchboard station ON/OFF.
- Switchboard station changed to DAY service.
- Switchboard station changed to NIGHT service; zones transferred.
- Call made from switchboard station to apartment station.
- Call made from apartment station to switchboard station.
- Panic alarm call made from apartment station to switchboard station
- Call/panic alarm call from apartment station queued.
- Call deleted from queue by attendant using dedicated key.
- Call deleted automatically from queue: attendant called back or another switchboard station deleted call.

Example:
Switchboard station in Night service with zones transferred to switchboard station 0013:

```
23/05/2000 08:10:00
SWBD —> 0013     [NIGHT]
```

Call from switchboard station to apartment station 1000:

```
23/05/2000 08:10:00
SWBD —> 1000     [CALL]
```

Call from apartment station 1000 to switchboard station:

```
23/05/2000 08:10:00
1000 —> SWBD     [CALL]
```

Panic alarm call from apartment station 1000 to switchboard station:

```
23/05/2000 08:10:00
1000 —> SWBD     [MEMOR]
```

Call/panic alarm call from apartment station 1000 queued :

```
23/05/2000 08:10:00
1000 —> SWBD     [STORE]
```

Call/panic alarm call from apartment station 1000 deleted from queue using dedicated key:

```
23/05/2000 08:10:00
1000 —> SWBD     [CANC]
```

Call/panic alarm call from apartment station 1000 automatically deleted from queue:

```
23/05/2000 08:10:00
1000 —> SWBD     [DEL]
```

MANAGEMENT FROM PC USING 'PCVOICE' SOFTWARE

The switchboard station can be managed from a PC. To do so, a PC must be available and the switchboard station must be configured for this function (see the section headed 'Installation').

When the switchboard station is managed via PC, the computer's keyboard is used instead of the switchboard station keypad and visual information is shown in the PCVOICE window rather than on the switchboard display.

The PCVOICE window can be minimized to an icon. When a call is received from an entrance panel or apartment station, the window will automatically be maximized.

The PCVOICE main screen represents a keypad as used on the DIGIVOICE switchboard station. In addition, the screen features the Urmet Domus logo and a configuration button (38). The main screen is used to manage a directory consisting of:
List of user names and the associated doorphone codes (39)
Add New User button (40)
Remove User button (41)
Edit User button (42)
Call User button (43).

Calling a user listed in the directory

Using the mouse, select the desired user in list (39) and click on button (43).
The switchboard station will dial the associated code automatically and call the user.

Adding a user to the directory

Click on button (40): a 32-character field will appear for entering the user name, together with a 4-character field for entering the user code, an OK button and a Cancel button. After typing in name and code, click on the OK button to confirm, or on the Cancel button to exit from the procedure without making changes.

Removing a user from the directory

Using the mouse, select the desired user in list (39) and click on button (41): an OK button and a Cancel button will appear. Click on the OK button to confirm removal, or on the Cancel button to exit from the procedure without making changes.

Editing a user listing in the directory

Using the mouse, select the desired user in list (39) and click on button (42): a 32-character field containing the selected name will appear together with a 4-character field containing the user code, an OK button and a Cancel button. Change the user name and/or code as desired and click on the OK button to confirm changes, or on the Cancel button to exit from the procedure without making changes.

Note: *The directory can contain a maximum of 1000 names.*

'Printer' window

A 'Printer' icon appears when the PCVOICE is started. This icon is associated with a window showing a list of all messages which the switchboard station sends to the printer (if configured). This window contains:
List of print messages (44)
Save List To Disc button (45)
Print List button (46)
Delete List button (47).

Pressing button (46) will send the entire contents of the list to the printer connected to the PC.

Pressing button (45) will save the entire contents of the list in a text file, and the list will automatically be cleared. The file will be assigned a name in format 'yymmdd.txt', where yy, mm and dd are the year, month and day on which the list was saved. Typically, this operation should be carried out at the end of each day.

Note: *The printer message list can contain a maximum of 1000 lines, Once this limit is reached, the list will automatically be saved to disc and cleared.*

PCVOICE software configuration

Double click on the Urmet Domus logo to open the software configuration window.
A window will appear containing the language options for the PCVOICE software user interface and the options for the serial port to be used. Option selections can be changed and confirmed by clicking on the associated buttons.

INSTALLATION-TERMINAL DESIGNATIONS

The switchboard station is designed for either tabletop or wall mounting. In tabletop installations, the switchboard station can be combined with video module 1732/1.
Electrical connections are made via a 19-pole junction box with the following terminals:

+V	Logic power supply positive input
0V	Logic power supply negative input
D	Data line
FA1	Outward voice conductor, channel 1
FB1	Return voice conductor, channel 1
FA2	Outward voice conductor, channel 2
FB2	Return voice conductor, channel 2
+F	Voice power supply positive input
0F	Voice power supply negative input
CV	Drive output, video module wall bracket
SCM	Drive output, video entrance panel relay – motor riser cable
SCT	Drive output, video entrance panel relay – camera riser cable
SL	Drive output, video entrance panel relay - local
S12	Drive output, video entrance panel relay - lines 1/2
S1	Drive output, video entrance panel relay - line 1
S2	Drive output, video entrance panel relay - line 2
RPCH	Drive output, supplementary call tone ringer
RPAL	Drive output, supplementary alarm ringer
0V	Logic power supply negative input

TABLETOP MOUNTING

The switchboard station leaves the factory ready for tabletop installation. Tabletop mounting support (8) ensures that it is positioned at the correct angle.

Video module 1732/1 installation

The video module can be installed to the right or the left of the switchboard station using bracket 1732/92. Two brackets and four screws to be installed in the associated seats (9) are supplied for combining switchboard station with the video module. Support (48) and the two self-adhesive feet (49) supplied together with the unit must be applied to the video module bracket.

WALL MOUNTING

The switchboard station leaves the factory ready for tabletop mounting. If it is to be installed on the wall, proceed as follows:
1) Remove the tabletop mounting support (7) and the two selfadhesive feet (13).
2) Using a small screwdriver, release the catch (12) retaining switchboard station body (1) to base plate.
3) Take switchboard station body (1) off base plate (14).
4) Open the handset cradle section (6) and unscrew the handset base.
5) Secure the base to the wall using the four wall plugs supplied together with the unit, inserting them through holes (8).

PC VERSION INSTALLATION

The switchboard station can be controlled from a PC. In this case, the PC's keyboard and mouse are used instead of the switchboard station keypad, and the switchboard station displays are shown on the PC monitor in a WINDOWS 3.11, 95 or 98 window. To configure the switchboard station for this type of operation, turn off switchboard station power supply and proceed as follows:
1) Using a small screwdriver, release the catch (12) retaining switchboard station body (1) to base plate.
2) Take switchboard station body (1) off base plate (14).
3) Cut jumper connection (54) using wire cutters.
4) Connect the switchboard station serial port (16) to one of the PC's serial ports (COM1 through COM4) using a twisted pair (55).
5) Reassemble switchboard station and supply it with power.
The switchboard station can now be controlled only by the PC, using the PCVOICE program.

The PCVOICE can be downloaded free of charge from the Urmet Domus Internet site at http://www.urmetdomus.com.

Minimum system requirements for the PC include a 486 processor or higher, 800x600 or 1024x768 pixel graphic resolution, and Windows 3.11, 95 or 98 operating system.

SWITCHBOARD STATION SERIAL CONNECTION (RS232) WITH P.C. AT
MAX 3 m

SWITCHBOARD STATION SERIAL CONNECTION (RS232) WITH P.C. XT
MAX 3 m

Note: *PC connecting cable must be less than 3 meters long.*

PRINTER INSTALLATION

If connected to a printer, the switchboard station can print certain types of system information (see the paragraph headed 'Using a Printer). The Sideltronic 1033/72 printer is recommended. Printer cable must be connected to switchboard station serial port (16).

Communication parameters are as follows:
Programmable speed: 4800,9600,19200 bit/s
Data format: 1 start bit, 8 data bits, no parity bit, 1 stop bit , XON-XOFF protocol.
Twisted pairs must not be used in connecting cable (56).

SWITCHBOARD STATION SERIAL CONNECTION. (RS232) WITH PRINTER
MAX. 3 m

Sch.1038/40 — 9-WAY FEMALE (pins 5, 9, 4, 8, 3, 7, 2, 6, 1) — 9-WAY MALE (pins 5, 9, 4, 8, 3, 7, 2, 6, 1) — PRINTER (56)

Note: *Printer connecting cable must be less than 3 meters long.*

PROGRAMMING TERMINAL 1038/56 CONNECTION

The switchboard station is provided with a connector (17) for programming terminal 1038/56. The terminal can be used for centralized programming of all entrance modules installed in the system.

Note: *Connector (17) is used to program entrance modules, and NOT to program the switchboard station.*

CONFIGURATION

To operate correctly, the switchboard station must be appropriately configured at the time of installation. Configuration programming consists of assigning parameters to all operating variables.

The following message will appear on the display the first time the switchboard station is turned on:

```
REL1.0
TO CONFIG
----------
```

This message indicates that the switchboard station must be configured. To configure the switchboard station, first press the 🔔 button to clear the display. Then activate the configuration cycle, noting the following points:

- Parameters must be entered only by means of the keypad (37).
- After selecting each parameter (with the exception of language in Step 0), press the call button (22) to confirm selection.
- The system will check all entered data, rejecting any data which are not congruent.
- Any errors made in entering parameters can be corrected with the delete key (33) before confirming entries.
- To return to the beginning of the programming procedure at any time, press scroll key (26).

To activate the configuration cycle, supply power to the switchboard station, hold down the SHIFT key (28), and press key (23) as many times in succession as needed to bring the language configuration step to the display.

STEP 0 - LANGUAGE

The following menu will appear on the switchboard station display:

```
LANGUAGE
----------
1
1=ITAL       2=FRANC
3=ENGL 4=DEUT 5=ESPA
```

The following languages can also be programmed:
Press the number key associated with the desired language.

Setting	Language
6	Hebrew
7	Russian
8	Dutch
9	Turk
10	Portuguese
11	Polish

STEP 1- SWITCHBOARD STATION CODE

The display will show:

```
STEP 1
----------
0001
CODE
(MAX 4 CHARACTERS)
```

To change switchboard station code, simply enter the new code with the keypad and press the call button (22).
The switchboard station code must be unique in the system: the same code must not be assigned to two switchboard stations, nor must the same code be assigned to a switchboard station and a main entrance panel.
The switchboard station code must not belong to a zone assigned to other switchboard stations in the system.
The switchboard station code is also used to route calls from a main entrance panel to the individual switchboard station.

STEP 2- ENGAGED TIME

The display will show:

```
STEP 2
----------
20
BUSY TIME
(10,20,30,40 S.)
```

To change the engaged time, simply select the desired time using the appropriate number key (1 through 4) and press the call button (22).
The engaged time must match that programmed for the entrance modules.

STEP 3- RING DURATION

The display will show:

```
STEP 3
----------
3
CALL TIME
(1,2,3,4,5 S.)
```

To change ring duration, simply select the desired time using the appropriate number key (1 through 5) and press the call button (22).
Programmed ring duration establishes the length of time that the apartment station doorphones will ring when called from the switchboard station.

STEP 4- NUMBER OF VOICE LINES

The display will show:

```
STEP 4
----------
1
NUMBER SPEECH LINES
(1,2)
```

To change the number of voice lines, simply select the desired number using the appropriate number key (1 or 2) and press the call button (22). If the switchboard station is to be configured to handle two ‘simultaneous’ calls, select 2. For this purpose, however, the switchboard station and the main entrance panels must be physically connected by two separate voice lines.

STEP 5- CODE RANGE 1

The display will show:

```
STEP 5
----------
0010-JJJJ
INTERV. COMPETENCE
ON CALLS ZONE 1
```

Enter the desired apartment station code to change the lower value in the range.
Then press the call button (22) and enter the code desired for the top value in the range.
This step programs the first range of codes used in establishing the zone assigned to the switchboard station. The zone consists of two ranges of codes. The switchboard station can intercept calls to and from apartment stations in its assigned zone.
Example: If the system has a single switchboard station identified by code 0001, and this station will handle calls for the entire system, program codes 0002-JJJJ in this step, and the same values in the next step.

STEP 6-CODE RANGE 2

The display will show:

```
STEP 6
----------
0010-JJJJ
INTERV. COMPETENCE
ON CALLS ZONE 2
```

Enter the desired apartment station code to change the lower value in the range.
Then press the call button (22) and enter the code desired for the top value in the range.
This step programs the second range of codes used in establishing the zone assigned to the switchboard station.
Example: If the system has a single switchboard station identified by code 0001, and this station will handle calls for the entire system except for those to and from apartment stations 5000 through 5999, program codes 0002-4999 in step 5 and codes 6000-JJJJ in step 6.

STEP 7- APARTMENT STATION OPTION

The display will show:

```
STEP 7
----------
0
INDOOR SET OPTION
(0=NO, 1=YES)
```

To change the apartment station option, simply select the desired number using the appropriate number key (0 or 1) and press the call button (22). If 1 is selected, the switchboard station will answer calls from main entrance panels addressed to its own code (i.e., the code set in step 1) in both DAY service mode A and in NIGHT service. If 0 is selected, the switchboard station will answer calls from main entrance panels addressed to its own code only in DAY service mode A.

STEP 8- APARTMENT STATION CALL INTERCEPTION

The display will show:

```
STEP 8
----------
1
INDOOR SET INTERCEPT
(0=NO, 1=YES)
```

To change the apartment station call interception parameter, simply select the desired number using the appropriate number key (0 or 1) and press the call button (22).
If 1 is selected, the switchboard station will intercept calls for apartment stations in its assigned zone. If 0 is selected, the switchboard station will neither intercept calls or store them in memory.

STEP 9- RING REPEATER (TERMINAL RC)

The display will show:

```
STEP 9
----------
0
CALL REPEAT
(0=NO,1=O,2=I,3=O+I)
```

To change the ring repeater parameter, simply select the desired number using the appropriate number key (0 through 3) and press the call button (22).
If 0 is selected, the terminal will not be active at any time. If 1 is selected, the terminal will be active throughout the entire ring duration for calls from outdoor stations. If 2 is selected, the terminal will be active throughout the entire ring duration for calls from indoor stations. If 3 is selected, the terminal will be active throughout the entire ring duration for all calls.

STEP 10- DAY SERVICE MODE

The display will show:

```
STEP 10
----------
A
DAY MODE
(A,B,C)
```

To change day service mode, simply select the desired number using the appropriate number key (1, 2 or 3) and press the call button (22). Operating modes in DAY service are described above.

STEP 11 – SERIAL LINE ENABLING

The display will show:

```
STEP 11
----------
0
SERIAL LINE
(0=OFF,1=ON)
```

To change serial line configuration, simply select the desired number using the appropriate number key (0 or 1) and press the call button (22).
To enable messages to be printed, select 1. In this case, proceed as directed in steps 11A, 11B and 12. If 0 is selected, skip to step 12.

NOTE: *If the switchboard station is controlled via a PC, this option enables messages in the PCVOICE software 'Printer' window to be sent to the printer.*

STEP 11A – MESSAGES TYPES TO BE PRINTED

The display will show:

```
STEP 11A
----------
0
0=LOCK RELEASE
1=SWITCHBOARD 2 = ALL
```

To change message types, simply select the desired number using the appropriate number key (0 through 2) and press the call button (22).

With 0, only the system door lock release messages described above will be printed. With 1, only the attendant messages described above will be printed. With 2, both types of message will be printed.

Note: *When the serial line is enabled, the configuration report will be printed at the end of the configuration procedure. While the report is being printed, the switchboard station will display the word 'PRINTING'.*

STEP 11B – TRANSMISSION RATE

The display will show:

```
STEP 11B
----------
0
TRANSMISSION SPEED
(0=4.8,1=9.6,2=19.2)
```

To change transmission rate, simply select the desired number using the appropriate number key (0 through 2) and press the call button (22).
The transmission rate must be the same as that set on the printer.

Note: *If the switchboard station is controlled via a PC, this parameter has no influence.*

STEP 12 – FUNCTION KEY F1 PROGRAMMING

The display will show:

```
STEP 12
----------
0
FUNCTION KEY [F1]
(0,1,2,3,4)
```

To change the function associated with key F1, simply select the desired number using the appropriate number key as indicated below and press the call button (22).

PARAMETER	ASSOCIATED FUNCTION
0	Key deactivated
1	Special service
2	Self-activation
3	CAPS-LOCK function
4	Call rerouting

- Select 0 to specify that no function is assigned to key F1 (27). The key will thus not be operative.
- Select 1 to assign a special service function to the key. The special service code will be entered in the next step (12A).
- Select 2 to assign the self-activation function to the key.
- Select 3 to assign the CAPS-LOCK function to the key. This will facilitate entering mixed letter-number codes.
- Select 4 to assign the call rerouting function to the key.

STEP 12A - ASSIGNING A SPECIAL CODE TO THE FUNCTION KEY

Enter the special service code to be associated with key 'F1'.

```
STEP 12A
----------

SPECIAL CODE
(MAX 3 CHARACTERS)
```

Programming steps '13' through '17' are analogous to those described for step '12', but are used for function keys F2, F3, F4, F5 and F6.

STEP 13 - PROGRAMMING FUNCTION KEY F2
Proceed as for step 12.

STEP 13A - ASSIGNING A SPECIAL CODE TO THE FUNCTION KEY
Proceed as for step 12A.

STEP 14 - PROGRAMMING FUNCTION KEY F3
Proceed as for step 12.

STEP 14A - ASSIGNING A SPECIAL CODE TO THE FUNCTION KEY
Proceed as for step 12A.

STEP 15 – PROGRAMMING FUNCTION KEY F4
Proceed as for step 12.

Note: *For key F4, press SHIFT and F1 simultaneously.*

STEP 15A - ASSIGNING A SPECIAL CODE TO THE FUNCTION KEY
Proceed as for step 12A.

STEP 16 - PROGRAMMING FUNCTION KEY F5
Proceed as for step 12.

Note: *For key F5, press SHIFT and F2 simultaneously.*

STEP 16A - ASSIGNING A SPECIAL CODE TO THE FUNCTION KEY

Proceed as for step 12A.

STEP 17 - PROGRAMMING FUNCTION KEY F6

Proceed as for step 12.

Note: *For key F6, press SHIFT and F3 simultaneously.*

STEP 17A - ASSIGNING A SPECIAL CODE TO THE FUNCTIONS KEY

Proceed as for step 12A.

STEP 18 - PROGRAMMING THE ACCESS PASSWORD

The display will show:

```
STEP 18
----------
 000000
ACCESS PASSWORD
 (MAX 6 NUMBERS)
```

To change the password, simply enter up to six numbers as desired and press the call button (22).
The attendant will be asked the password every time the switchboard station is activated by means of the ON button.

NOTE: *Password must be numeric.*

The configuration cycle concludes with step 18, and the switchboard station returns to normal operation.

GUARD DOOR SWITCHBOARD STATION/ TELEPHONE INTERFACE OR PABX ADAPTER CIRCUIT Ref. 1038/70

In order to use the call rerouting feature, the telephone interface or PABX adapter circuit must be installed in the switchboard station Ref.1038/40. In addition, the telephone to which calls will be rerouted must be connected to a PABX or provided with a telephone interface.

INSTALLATION

To install adapter circuit 1038/70, turn off switchboard station power supply and proceed as follows:

1) Using a small screwdriver, release the catch retaining switchboard station body to base plate.
2) Remove jumpers (50).
3) Insert adapter circuit 1038/70 (53) in connectors (52), taking care to orient it in the right direction (the longer connector is located adjacent to jumpers).
4) Connect the telephone interface or PABX to terminal block (51), routing cables through hole (11).
5) Reassemble switchboard station and supply it with power.

Note: *The telephone interface or PABX connecting cables must be less than 3 meters long.*

TERMINAL DESIGNATIONS

The connection terminal board on the switchboard bracket is provided with the following terminals:

CA Call
1 Voice out
2 Voice back
6 Ground
9 Door opener contact

CALL REROUTING

Using adapter circuit 1038/70 and a telephone interface or PABX, the calls received by the switchboard station can be rerouted to a standard or cordless telephone. For adapter circuit installation, see the section covering installation.
A function key must be programmed to activate and deactivate the call rerouting feature.
Example: If key F2 was programmed for the call rerouting function (function 4), the display will show the following message when the key is pressed:

```
                    >TEL
23/05/2000  08:10:00
0001
```

From this time onwards, the attendant can leave the switchboard station and receive calls made to it from apartment stations or entrance panels directly on his cordless phone. If a call is received from a main entrance panel, the attendant can also open the door by dialing R35 (systems equipped with PABX) or R5 (systems equipped with telephone interface).
Upon returning to the switchboard station, the attendant must press key F2 again to disable the call rerouting function.

WHITE ELECTRONIC DOORPHONE Ref. 1138

90 mm
69 mm
220 mm

Featuring Scaitel styling, this doorphone is designed specifically for the Digivoice system.

Capabilities of the basic Digivoice doorphone are as follows:

- Voice calls to and from entrance panels and/or the guard door switchboard station.
- Dedicated speaker for ringing tone.
- Electret condenser microphone.
- Door lock release key.
- Conversation privacy, and provision for door lock release protected by privacy feature.
- No door phone programming required during installation.

TERMINAL DESIGNATIONS

FB	Voice conductor terminal B
FA	Voice conductor terminal A
CA	Ringer terminal
0V	Power supply negative input

about 1,55 m

WHITE ELECTRONIC DOORPHONE WITH TWO KEYS Ref. 1138/2

90 mm
69 mm
220 mm

Doorphone Ref. 1138/2 features the same capabilities as the basic version, plus two dedicated keys for calling the switchboard and controlling auxiliary services.

about 1,55 m

SPECIAL DOORPHONE Ref. 1138/18

GENERAL

Special doorphone Ref. 1138/18 is used only with the DIGIVOICE system. Doorphone capabilities include:
- Receiving calls from entrance panels.
- Receiving calls from all apartment stations, and storing up to 10 unanswered calls in memory.
- Making calls to all apartment stations by dialing the associated code or pressing a pre-programmed key.

The special doorphone features SCAITEL styling and is supplied in a single tabletop mounting version which can be adapted for wall mounting (see the section covering installation).

NOTICE: Any entrance panels 1038/10, 1038/15 or 1038/16 installed in systems using special doorphones 1138/18 must be version 2.0 or higher.

FEATURES

- Integral single-port decoder.
- Distinctive ringing tones are used to identify calls main from main entrance panels, secondary entrance panels, apartment stations, guard door switchboard station or from the landing.
- Dedicated Call Switchboard key.
- Door Open LED.
- Mute function.
- Automatic door opener function.
- Ringer volume control.
- Video module management.
- Manages call button on landing.
- Self-activation function establishes connection between doorphone and any main entrance panel or secondary entrance panel on the same riser cable by means of a dedicated key.
- Doorphone can receive calls from other apartment stations.
- Ability to receive calls from other apartment stations can be disabled. Disabled status is indicated by a LED.
- Up to 10 unanswered calls from apartment stations can be stored in memory. A LED indicates that calls have been stored.
- Any apartment station in the system can be called by dialing the associated code or pressing a pre-programmed key. Up to 20apartment station codes can be programmed.
- Provision for using special codes.
- Programming through doorphone keypad, with programming feedback provided by LED.
- Programmable ring repeater terminal.

COMPONENTS

1) Doorphone top casing.
2) 10 alphanumeric keys. Used to enter codes.
3) Delete key.
4) Call button.
5) SHIFT key. Used to enter alphabetic codes.
6) Call DIGIVOICE Switchboard key.
7) Handset.
8) Ringer volume control.
9) Ringer grille.
10) MUTE key.
11) Two-color LED: Green for MUTE function, flashing green for automatic door opener function, red or flashing red/green for programming function, and flashing green/red for data line malfunction.
12) Red apartment station call LED: Lights up to indicate that a call from another apartment station is in progress, flashes to indicate that calls from other apartment stations have been stored in memory, and flashes once every 3 seconds to indicate that ability to receive calls from other apartment stations has been disabled.
13) Self-activation key.
14) Door Open LED.
15) Door Lock Release key.
16) Switch hook.
17) Wall mounting holes.
18) Self-adhesive feet.
19) Connecting cable channel.
20) Tabletop mounting support.

SPECIFICATIONS

Space requirements:

Dimensions (mm):	**90 x 220 x 67 mm**
Service temperature range:	**-5°C to 45°C**

ELECTRICAL PROPERTIES

Power supply voltage range (+V; 0V):	**16 to 25.2 V DC**
Max. current draw (+V; 0V):	**450 mA**
Consumption in load units (LU):	**3 LU**

RCH signal output:

Maximum applicable voltage:	**30 V dc**
Maximum current draw rating:	**10 mA**

REFERENCE STANDARDS

Special doorphone 1138/18 complies with the following standards:
- **CEI EN 50081-1** Electromagnetic Compatibility. Generic emission standard; Part 1: Residential, commercial and light industry environments.
- **CEI EN 50082-1** Electromagnetic Compatibility. Generic immunity standard; Part 1: Residential, commercial and light industry environments.

INSTALLATION - TERMINAL DESIGNATIONS

The special doorphone is designed for either tabletop or wall mounting. In tabletop installations, the special doorphone can be combined with video module 1732/1.
Electrical connections are made on terminal blocks located inside the special doorphone:

+V Logic power supply positive input
0V Logic power supply negative input
D Data line
FA Outward voice conductor
FB Return voice conductor

+F Voice power supply positive input
0F Voice power supply negative input

0V Logic power supply negative input
CP Call from landing button input
CV Drive output, video module wall bracket
RCH Drive output, supplementary call tone ringer

TABLETOP MOUNTING

The special doorphone leaves the factory ready for tabletop installation. Tabletop mounting support (20) and self-adhesive rubber feet (18) ensure that it is positioned at the correct angle.

WALL MOUNTING

The special doorphone leaves the factory ready for tabletop installation. If it is to be installed on the wall, proceed as follows:
1) Remove the tabletop mounting support (20).
2) Remove the self-adhesive rubber feet (18).
3) Open the doorphone casing.
4) Pinch out hole (17) on the top of the unit.
5) Secure the base to the wall using the two wall plugs supplied together with the unit, inserting them through holes (17).

Video module 1732/1 installation

The video module can be installed to the left of the special doorphone using wall bracket 1732/92. The bracket is supplied together with two “L” plates for this purpose.

CONFIGURATION

To operate correctly, the special doorphone must be appropriately configured at the time of installation.
Configuration programming consists of assigning parameters to all operating variables in sequence.
Activate the configuration cycle, noting the following points:
- After selecting each parameter, press the CALL button (4) to confirm selection.
- The system will check all entered data, rejecting any data which are not congruent.
- Any errors made in entering parameters can be corrected with the delete key (3) before confirming entries.
- To retain an existing setting without change, simply press the CALL button (4).
- The cycles concludes upon completion of the last configuration step.

To activate the configuration cycle, hold down the SHIFT key (5) and press key (13) several times in succession until LED (11) turns red (not flashing).

STEP 1 - SPECIAL DOORPHONE RISER CABLE

Riser cable codes 1 through JJ, X1 or X2 can be entered. To enter codes X1 or X2, press number key 1 followed by SHIFT and the CALL button, or 2 followed by SHIFT and the CALL button. LED (11) will flash once to indicate that the parameter has been programmed.

STEP 2 - SPECIAL DOORPHONE CODE

Special doorphone codes 1 through JJJJ, X1 or X2 can be entered.
After the code is entered, LED (11) will flash once to indicate that the parameter has been programmed.
The special doorphone code must be unique in the system: the same code must not be assigned to two special doorphones, nor must the same code be assigned to a special doorphone and an apartment station or a guard door switchboard station.

STEP 3 - ENGAGED TIME

The engaged time must match that programmed for the entrance modules. Values between 1 and 4 can be entered to configure engaged times from 10 to 40 seconds. LED (11) will flash once to indicate that the parameter has been programmed.

STEP 4 - RING DURATION

Programmed ring duration establishes the length of time that the apartment station doorphones will ring when called from the special doorphone. Durations between 1 and 5 seconds can be entered.
LED (11) will flash once to indicate that the parameter has been programmed.

STEP 5 - NUMBER OF VOICE LINES

Enter the number of voice lines connecting the main and secondary entrance. There may be either 1 or 2 lines. LED (11) will flash once to indicate that the parameter has been programmed.

STEP 6 - RING REPEATER (TERMINAL RCH)

If 0 is selected, the terminal will not be active at any time. If 1 is selected, the terminal will be active throughout the entire ring duration for calls from outdoor stations or switchboard stations. If 2 is selected, the terminal will be active throughout the entire ring duration for calls from other indoor stations. When the ring repeater is enabled (option 1, 2 or 3), the terminal will also be active for the entire ring duration of calls from the landing. LED (11) will flash once to indicate that the parameter has been programmed.

STEP 7 - CALLING MODE

Enter 3 to select 'UNRESTRICTED' calling mode, 2 to select 'PROGRAMMED' calling mode, or 1 to disable the doorphone from making outgoing calls. After the 7th programming step is completed, the configuration cycle comes to an end.

Note: *If 2 is selected in this step, it is not necessary to carry out the extended programming sequence to assign codes to each key.*

EXTENDED PROGRAMMING

This programming sequence must be performed when the doorphone has been configured for 'PROGRAMMED' calling mode, and makes it possible to associate each of the 20 keys (1 through 0, A through J) with a different function. This function may be a call, a special service code, or a main entrance panel self-activation code.

To activate the extended configuration cycle, hold down the SHIFT key (5) and press key (6) several times in succession until LED (11) begins to flash red and green. This operation will take effect ONLY if the doorphone has already been configured for 'PROGRAMMED' calling mode.
At this point, functions can be assigned to keys. First press the key to be programmed (0 through 9 or A through J). LED (11) will flash more quickly. Then program the function to be associated with the pressed key. LED (11) will flash slowly. Repeat the procedure for all keys to be programmed and then exit from programming with the same key sequence used to activate the cycle.

Function programming

Any of the following functions can be associated with a doorphone key:
1) Call to another user
2) Special service code
3) Main entrance panel self-activation.

To program a call to another user, press the key to be programmed, enter the user code (this code must not begin with 0), and confirm by pressing the call button (4).

To program a special service code, press the key to be programmed, enter the special service code (beginning with 0), and confirm by pressing the call button (4).

To program main entrance panel self-activation, press the key to be programmed, enter the main entrance panel code (this code must not begin with 0), and confirm by pressing key (13).

Note: *To annul the function programmed for a key, simply program it for a function that has no effect on the system (e.g., special code 0JJJ).*

DEFAULT PROGRAMMING

When it leaves the factory, the special doorphone is configured as follows:

- Riser cable: 01
- Code: 1000
- Engaged time: 20 s
- Ring duration: 3 s
- Lines: 1
- RCH: 0
- Calling mode: UNRESTRICTED
- 20 pre-programmed functions: Call code 1000.

OPERATION

RECEIVING CALLS FROM ENTRANCE PANELS OR GUARD DOOR SWITCHBOARD STATION

When the call is received, the doorphone will ring with the distinctive tone used to identify the calling device. Picking up the handset will establish communication with the caller. As the call will be cut off immediately when the handset is hung up, the door lock release key must be actuated BEFORE hanging up if it is necessary to open the door.

RECEIVING AND STORING CALLS FROM OTHER APARTMENT STATIONS

The special doorphone can receive calls from other apartment stations in the system and store unanswered calls in memory. This function can be disabled by pressing the SHIFT and Door Lock Release keys (5) -(15). If the function is disabled, LED (12) will flash once every 2 seconds, and incoming calls will be ignored but stored in memory. To enable the doorphone to receive calls again, simply press SHIFT and the Door Lock Release key again.
When the special doorphone receives a call from another apartment station, it rings with the distinctive tone used to identify these stations and LED (12) will go on for a maximum of 10 seconds. If the handset is picked up within 10 seconds, communication is established with the caller and the LED goes off. If the call is not answered, it will be stored in memory, and LED (12) will flash.
To return a call that has been stored in memory, simply pick up the handset and press the CALL button (4). If the other apartment station does not answer, the call is not deleted from memory, and any other calls queued in the memory can be returned by hanging up the handset and then repeating the procedure. The doorphone will emit a warning tone when the handset is hung up if the memory still contains calls that have not been reviewed. All calls in the memory can be erased by pressing SHIFT-X (5)-(3).

Note: *A maximum of ten calls can be stored in memory.*

CALLING OTHER DOORPHONES

Depending on how it was configured, the special doorphone can make calls to other apartment stations by dialing the associated code ('unrestricted' calling mode) or to a maximum of 20 preprogrammed apartment stations ('programmed' calling mode). The special doorphone can also be configured so that it can only return calls stored in its memory.
Regardless of whether the doorphone has been configured for 'unrestricted' calling mode or for 'programmed calling mode, the following points must be borne in mind:
1) Calls can only be made with the handset off-hook.
2) Calls to other apartment stations can only be made if the doorphone is not already engaged in a voice communication. If it is, it will be necessary to hang up the handset and then pick it up again.
3) The doorphone will emit 3 single-tone beeps when a call is made. If it does not, the code you are attempting to call does not exist.
4) If a call cannot be made because the line is engaged, the doorphone will emit a series of beeps similar to a normal telephone busy signal: hang up and try again later.
5) Calls to another apartment station can last no longer than 10 minutes. They will be cut off automatically at the end of this timeout period, or if other calls are made on the system.

'UNRESTRICTED' calling mode

To call another apartment station, dial its code (which must not begin with '0' and may consist of a maximum of 4 characters) using the keypad (2) and press the call button (4). Letter codes can be dialed by using the SHIFT key (5) in the same way as on a computer keyboard: to dial the letter 'B', for example, hold down the SHIFT key and press '2').

'PROGRAMMED' calling mode

In this mode, each key 1 through 0 and A through J (i.e., SHIFT-1 through SHIFT-0) is associated with an apartment station code or,

more generally, with a pre-programmed function (self-activation or a special service code). A maximum of 20 pre-programmed functions can be used in this mode.
To carry out the function for which a key is programmed, simply pick up the handset, press the key concerned, and confirm by pressing the call button (4).

CALLING GUARD DOOR SWITCHBOARD STATION

Pressing key (6) will dial the call code associated with the guard door switchboard station. If the switchboard station is on, the doorphone ringer will emit a courtesy tone. If the switchboard attendant answers within 10 seconds, direct communication is established with the switchboard; if not, the call is queued in the switchboard station memory and the doorphone ringer emits a further courtesy tone. The handset can now be hung up until the switchboard attendant calls back.

RINGING TONES AND VOLUME ADJUSTMENT

The doorphone is equipped with a two-tone ringer. Higher frequency tones are used to identify doorphone calls, while calls from the landing are identified by lower frequency tones.
For calls from the landing, the ringing tone is produced each time the associated doorbell pushbutton is actuated; duration can be personalized, but cannot exceed 5 consecutive seconds.
Calls from main entrance panels are identified by a continuous ringing tone whose duration is programmed at the entrance panel.
Calls from secondary entrance panels are identified by an intermittent ON-OFF type ringing tone which continues for the entire duration programmed at the secondary entrance panel.
Calls from switchboard stations or other special doorphones are identified by an intermittent ringing tone consisting of a series of three pulses separated by a short pause, and which continues for the entire duration programmed at the calling device.
The ringing tone for calls from doorphone 1138/2 consists of two series of three pulses separated by a long pause.
Volume of all ringing tones and courtesy tones can be adjusted to minimum, medium or maximum by means of slide switch (8).

Note: *Ringer and courtesy tones are disabled if supply voltage is too low or too high, and will return to normal operation when the problem ceases.*

MUTE FUNCTION

The MUTE function is activated and deactivated by means of key (10). Activating the MUTE function disables all calls, and LED (11) will turn green.

DOOR LOCK RELEASE

Pressing key (15) sends a door lock release code command and causes the entrance panel speaker to emit a courtesy tone. Which door in the system is opened will depend on programming, and will typically be the door at the entrance panel which currently has a voice connection with the special doorphone.

AUTOMATIC DOOR OPENER FEATURE

This feature will automatically send a door lock release signal whenever the doorphone is called. To activate and deactivate the feature, simply press the SHIFT and MUTE keys (5)-(10). When the feature is active, LED (11) flashes green. Obviously, the feature can be activated together with the MUTE function or separately.
To activate the feature without MUTE, press SHIFT-MUTE: LED (11) will flash and, when a call is received, the doorphone will ring and send a door lock release signal.
To deactivate the feature, press SHIFT-MUTE again. LED (11) will go off.
To activate the feature with MUTE, press MUTE; LED (11) will turn green. Then press SHIFT-MUTE: LED (11) will flash and, when a call is received, the doorphone will send a door lock release signal but will not ring. To deactivate the function, press SHIFT-MUTE again.
LED (11) will still be green, as the MUTE function is still active. To deactivate it, press MUTE.

DOOR OPEN LED

LED (14) can assume three states: off, on and flashing. If the LED is on, one or more main entrance doors are open. If the LED is flashing, the secondary entrance door is open.
The LED will also flash if both main and secondary entrance doors are open at the same time.

SELF-ACTIVATION

The doorphone can establish audio and video communication with the main entrance panel or with its secondary entrance panel without first receiving a call from the panel.
To activate communication with a main entrance panel, pick up the handset, dial the main entrance panel code and press key (13). If the selected main entrance panel is not in use, communication with it will be established.
To activate communication with the secondary entrance panel, press key (13) with the handset either on- or off-hook. If the secondary entrance panel is not in use, communication will be established.

Note: *Self-activation with the secondary entrance panel is not possible in systems where two secondary entrance panels are connected to the same riser cable via loop-through wiring.*

Note: *Main entrance panels can be pre-programmed for self activation if the special doorphone is configured for 'Programmed' calling mode (see the section headed CONFIGURATION). In this case, simply pick up the handset, press the programmed key, and confirm by pressing the call button (4).*

SPECIAL SERVICE CODES

To activate special services with the doorphone, pick up the handset, dial the service code (0 + a maximum of 3 characters) and press the call button (4). If the code is used for sensor monitoring, the doorphone will indicate sensor status as follows:
- 1 Beep = Sensor OFF
- 3 Beeps = Sensor ON.

Note: *Special services can be activated using pre-programmed keys if the special doorphone is configured for 'Programmed' calling mode (see the section headed CONFIGURATION). In this case, simply pick up the handset, press the programmed key, and confirm by pressing the call button (4).*

DECODER PROGRAMMING

The special doorphone can be used for decoder programming calls, and will indicate the outcome of the operation as follows:
- 1 Beep = Programming OK
- 3 Beeps = Programming not OK.

Note: *To program riser cable codes X1 or X2 in a decoder, dial 1 followed by SHIFT-CALL, or 2 followed by SHIFT-CALL.*

Note: *After programming a code, hang up the handset before attempting to program the next code.*

DIAGNOSTICS SIGNALS

LED (11) will flash red and green if the data line is short circuited or is not connected.

DOORPHONE WITH SINGLE-PORT DECODER Ref. 1138/31

90 mm
69 mm
220 mm

FEATURES

The doorphone provides the following features:

- Electronic call tone signaling via a dedicated outward-facing speaker.
- Ringer volume adjustment through jumper connection or ringer volume control kit Ref. 1132/53.
- Voice calls.
- Door lock release function.
- Conversations and door lock release function protected by privacy feature.
- Calls to guard door switchboard station.
- Calls to special doorphone.
- Call from landing function.
- Video module management.
- Manages self-activation function.
- Provision for programming (and checking programmed codes) with system off, using programming terminal Ref. 1038/56.
- Courtesy tones.
- Provision for connection with an additional doorphone Ref. 1138 or Ref. 1138/2.

The doorphone with single-port decoder consists of the following:

COL:
A:
T1:
T2:

1) Programming/data line LED.
2) Volume jumper connection.
3) Terminal block for connection to power supply, data and voice riser cable - (M1).
4) Terminal block for connection to call from landing pushbutton and video signal enabling - (M2);
5) Terminal block for connection to additional doorphone (Ref. 1138 or 1138/2) - (M3);
6) Base.
7) Programming data label.
8) Handset.
9) Ringer/courtesy tone speaker.
10) Top casing.
11) Programming connector.
12) Printed circuit.
13) Programming key.

TERMINAL DESIGNATIONS

RISER COLUMN TERMINAL BLOCK - (M1)

FB	Voice terminal B (return voice conductor)
FA	Voice terminal A (outward voice conductor)
D	Data bus terminal
0V	Power supply ground terminal
+V	+24 V DC power supply terminal

CALL FROM LANDING/VIDEO SIGNAL ENABLING TERMINAL BLOCK - (M2)

CV	Video signal enabling terminal
CP	Call from landing terminal
0V	Ground terminal (reference for CP and CV)

TERMINAL BLOCK FOR ADDITIONAL DOOR PHONE CONNECTION (Ref. 1138 or 1138/2) - (M3)

FB	Voice terminal B
FA	Voice terminal A
CA	Ringer and service terminal
0V	Ground terminal (reference for CA)

SPECIFICATIONS

Consumption in load units (LU):	**1.5 LU**
Supply voltage:	**2 to 25.2 V DC**
Max. current draw:	**150 mA**
Service temperature range:	**-5°C to 45°C**

Overall dimensions (mm): w = 90 h = 220 d = 69

OPERATION

Doorphone with single-port decoder can be used for voice calls with entrance modules, guard door switchboard stations or special doorphones.
The doorphone is provided with a door lock release key. When the key is pressed, the unit emits a courtesy tone to indicate that the lock has been released.
During programming (see the paragraph headed ‘Programming’), a riser column code, a user code and codes associated with two additional keys (optional) must be assigned. All of these codes are resident on an EEPROM memory which guarantees that they are retained even with power off.
During operation, the doorphone with single-port decoder analyzes the code emitted by the calling device and, if it corresponds to the code for which it has been programmed, the doorphone will accept the call.
The conversation can last up to ten minutes if no calls are made to another user. The video signal (where applicable) will remain for the entire duration of the conversation.
After the 10-minute time-out period, or if the call is interrupted by a call to another user, the doorphone with single-port decoder sends a courtesy tone to the connected station to inform the user that the call has been interrupted.
The doorphone with single-port decoder is provided with three special keys which can be used to send command signals:

- Door Lock Release
- Call Switchboard
- Call Special Doorphone

The doorphone emits a courtesy tone each time one of these signals is sent. Only one door lock release signal is needed, even if the system includes several outdoor stations, each with an electric lock: actuating the door lock release key will open the electric lock only at the outdoor station from which the call was made.

RINGING TONES

The doorphone is provided with an outward-facing call tone signaling speaker.
The speaker produces four distinctive ringing tones to identify different types of call:

- Call from main entrance modules. Continuous two-tone ringing for the duration programmed at the calling module.
- Call from secondary entrance module. Intermittent two-tone ringing for the duration programmed at the calling module.
- Call from switchboard stations or special doorphones. Series of three two-tone pulses followed by a pause and repeated for the time programmed at the calling device.
- Call from landing. Continuous two-tone ringing for the period that the associated doorbell pushbutton is actuated, with a maximum limit of 5 seconds.

The doorphone with single-port decoder will disable all ringer functions in the following cases:

- Short circuit in additional doorphone wiring.
- Supply voltage too low.
- Supply voltage too high.

Ringer functions will return to normal when the problem ceases.

Ringing stops when the handset is picked up.

RINGER VOLUME ADJUSTMENT

MIN MAX

or

0V 0V

NOTE: *After adjusting volume, store the jumper in the seat provided on doorphone top casing.*

CALLING GUARD DOOR SWITCHBOARD STATION OR SPECIAL DOORPHONES

Keys T1 and T2 can be programmed to call the guard door switchboard station or a special doorphone special doorphone (see the paragraph headed 'Programming').
When the key is pressed, the doorphone will emit a courtesy tone to indicate that the call has been sent. If the called device is busy and queues the call in memory, a second courtesy tone will be emitted after 10 seconds.

CALLS FROM LANDING

CP
OV

VIDEO MODULE

Doorphone with single-port decoder is designed to control video module 1732/1 with associated wall bracket 1732/92.
This feature makes it possible to activate the video module when a call is made, and to deactivate it when the call ends. If the call is not answered, the video signal will continue for a maximum of 30 seconds.

SELF-ACTIVATION FUNCTION

The self-activation function enables the apartment station to display the image recorded by the cameras installed in the system (generally for surveillance and monitoring purposes) and to establish a voice connection with no need for dedicated wiring.
Keys T1 and T2 can be programmed for this function.
The entrance module can be activated in this way only when in stand-by condition.

MUTE KEY/ DOOR OPEN LED KIT

The doorphone incorporates provision for installing Mute key/Door Open LED kit Ref. 1132/56. Additional key T2 must be removed in order to install the kit.

PROGRAMMING

DOORPHONE PROGRAMMING METHODS

Doorphone with single-port decoder can be programmed in three ways:

- At the workshop, using programming terminal 1038/56 or any calling device and a power supply unit.
- Directly on the system (which need not be supplied with power) by connecting programming terminal Ref. 1038/56 directly to the programming connector.
- On the system supplied with power, using any calling device. This operation must be carried out by two people who communicate using transceivers or cellular phones. One person will use the doorphone system calling device while the other works at the doorphone and decoder.

PROGRAMMABLE PARAMETERS

The following parameters must be programmed for each doorphone with single-port decoder:
- Riser cable code
- User code
- Codes for additional keys

The riser cable code identifies the riser cable on which the doorphone with single-port decoder is physically installed. The riser cable code can assume values between “01” and “JJ”, and must necessarily be the same as the riser cable code assigned to the corresponding secondary entrance panel.

If the doorphone is installed between a main entrance panel and a secondary entrance panel, the assigned riser cable code must be “X1” if the doorphone is connected to voice line 1, and “X2” if the doorphone is connected to voice line 2.
For systems with no secondary entrance panels, the riser cable code “01” must be assigned to all doorphones with single-port decoder.
The user code is a unique 4-character alphanumeric code which positively identifies each user. Codes between ‘0001’ and ‘JJJJ’ can be assigned. Each user code must be unique in the system.
The two additional keys on the doorphone can be assigned codes in order to program them for special functions as follows:

Programmed code	Function
0000	Call guard door switchboard station.
0980 ÷ 0989 e 0990 ÷ 0998	Self-activation on the main entrance panel with corresponding code (maximum of 19 main entrance panels).
0999	Self-activation on secondary entrance panel connected to the same riser cable.
1000 ÷ JJJJ	Call special doorphone.

PROGRAMMING WITH TERMINAL 1038/56

See the instruction manual provided with the terminal.

PROGRAMMING WITH A CALLING DEVICE

The doorphone with single-port decoder is provided with a key which activates the code programming cycle, and a LED which provides programming feedback and indicates any data line problems.
Programming codes are sent to the doorphone by means of a calling device (i.e., an entrance module or switchboard station).
The calling device must be connected to the doorphone with singleport decoder via the data bus.
The LED will flash each time a code is programmed.
At the end of the programming cycle, wait 2 seconds for the doorphone to enter normal operating status.
To access the riser cable code and user code programming procedure (basic programming), briefly press the programming key. When the programming LED goes on, the riser cable code and user code can be transmitted from a calling device. The programming cycle ends when the user code is received, and the LED will go off.
To access the additional key code programming procedure (extended programming), hold down the programming key for approximately 3 seconds until the programming LED begins to flash. When the key is released, the LED will remain on and codes for additional keys T1 and T2 can be transmitted from a calling device. The programming cycle ends when the last code is received, and the LED will go off.
Programming conditions and the corresponding LED states are shown in the table below:

Condition	LED status
Programming key pressed briefly (riser cable code and user code programming).	On. Indicates that device is ready to be programmed.
Calling device transmits riser cable code	Flashes and then stays on. Indicates that riser cable code has been programmed.
Calling device transmits user code.	Flashes and goes off. Indicates that user code has been programmed.
Programming key pressed for approximately 3 seconds (key T1 code and key T2 code programming).	Flashes and stays on when key is released. Indicates that device is ready to be programmed
Calling device transmits code for key T1.	Flashes and then stays on. Indicates that code for key T1 has been programmed.
Calling device transmits code for key T2.	Flashes and goes off. Indicates that code for key T1 has been programmed.
No data line or data line short circuited.	Flashes.

If it is not necessary to program all codes, press the programming key to exit from the procedure after entering the last desired code.

NOTICE: To ensure that system maintenance can be efficiently performed, it is essential that programming data be recorded on the label provided on doorphone top casing interior.

NOTE:
- *When programming with a calling device, the “0” preceding each code must be omitted.*
- *To assign the riser cable code “X1” or “X2” when programming from an entrance module, press the “Key” at the same time as key “1” or “2”: the display will show “-1” or “-2”. Press the call button to confirm.*
- *To assign the riser cable code “X1” or “X2” when programming from a guard door switchboard station, press key “1” or “2” and then confirm by pressing the shift key and the call button simultaneously.*
- *If an additional key is to be programmed to call the switchboard (“0000”), simply press the call button without entering a code.*

INSTALLATION

The doorphone base is provided with holes for retention to wall using the 6 mm diameter wall plugs supplied together with the unit.

DIAGNOSTICS

When the system is supplied with power and the doorphone with single-port decoder is not being programmed, the LED will signal malfunctions as follows.
Continuous flashing: data bus short circuit or no data bus.

HANDS-FREE DOORPHONE Ref. 1138/6

90 mm 42 mm 220 mm

Hands-free doorphone provides the following features and capabilities:

- Voice calls using PTT button. LED indicates when voice channel is active.
- Dedicated speaker for ringing tone.
- Electret condenser microphone.
- Door lock release key.
- Conversation privacy, and provision for door lock release protected by privacy feature.
- No door phone programming required during installation.
- Ringer volume adjustment.
- Mute function with LED (terminal MU).
- Door Open LED (terminal PA).
- Two keys for calling guard door switchboard station and a special doorphone.
- Provision for parallel connection with one of the following Digivoice system doorphones: Hands-free doorphone Ref. 1138/6, basic doorphone Ref. 1138 or 1138/2.
- Automatic door opener feature.
- Provision for hands-free speakerphone calling with optional additional circuit (Ref. 1138/55).
- Provision for automatic voice channel activation upon making a call to switchboard with optional additional circuit (Ref. 1138/55).

TERMINAL DESIGNATIONS

0V	Logic power supply negative input
CA	Ringer terminal
FA	Voice terminal A
FB	Voice terminal B
MU	Mute LED terminal
PA	Door Open LED terminal

Connection of a hands-free doorphone to a decoder Ref. 1038/35.

1038/35: FB, FA, CA, 0V, CP, CV, MU, PA
1138/6: FB, FA, CA, 0V, MU, PA

Connection of a hands-free doorphone in parallel with another doorphone Ref. 1138/6 to a decoder Ref. 1038/35.

1038/35: FB, FA, CA, 0V, CP, CV, MU, PA
1138/6: FB, FA, CA, 0V, MU, PA
1138/6: FB, FA, CA, 0V, MU, PA

Connection of a hands-free doorphone in parallel with a doorphone Ref. 1138-1138/2 to a decoder Ref. 1038/35.

1038/35: FB, FA, CA, 0V, CP, CV, MU, PA
1138/6: FB, FA, CA, 0V, MU, PA
1138 o 1138/2: FB, FA, CA, 0V

PROGRAMMAZIONE DI FABBRICA
FACTORY PROGRAMMING
PROGRAMMATION D'USINE
HERSTELLERPROGRAMMIERUNG
PROGRAMACIÓN DE FÁBRICA

PROGRAMMAZIONE PONTICELLI / *JUMPER PROGRAMMING* / PROGRAMMATION BARRETTES / *PROGRAMMIERUNG ÜBERBRÜCKUNGEN* / PROGRAMACIÓN PUENTES			
JP1	JP2	off	ON
ON	off	speaker	muted
off	ON	speaker	speaker & key
ON	ON	speaker	muted & key
off	off	speaker	speaker

JP 1 JP 2

WHITE 4" VIDEO MODULE Mod. 1732

about 1,55 m

The Scaitel video module features a flat 4" monitor screen.
The module can be installed alongside the doorphone or guard door switchboard station to set up video doorphone systems. The module is provided with external brightness and contrast controls.
The module is secured to the wall by means of a bracket with incorporated connector and terminal block. A tabletop mounting conversion kit is also available.

The video module implements both CCIR and EIA transmission standards:

- CCIR version (50Hz) Ref. 1732/1
- EIA version (60Hz) Ref. 1732/18

Note: *Suitable cameras must be fitted in the door unit according to the transmission standard of the monitor.*

167 mm
220 mm
56 mm
Contrast adjustment
Brightness adjustment

VIDEO MODULE WALL BRACKET FOR DIGIVOICE SYSTEMS Ref. 1732/92

1,55 m

TERMINAL DESIGNATIONS

R2	Monitor positive power supply connection
RD	Self-activation enabling
R1	Monitor negative power supply connection
V5	Video signal ground (braid shield)
V3	Video signal input (coax)
V4	Video signal output (coax)
CV	Drive input, video module wall bracket
0V	Logic power supply negative input

INSTALLATION

Position the video module wall bracket alongside the doorphone and install as directed in the instructions provided with the product.

Bracket retention to wall.

1. Install wiring conduit, positioning it so that it terminates at the entry hole provided on the unit.
2. Using the four screws, secure the bracket to the wall at the indicated height.
3. Connect conductors to the associated terminals.
4. Pull out retainer A.
5. Install monitor on bracket.
6. Secure the monitor by pushing retainer A upwards.

SENTRY+ VIDEO DOOR PHONE Mod. 1704

Sentry+ video door phone is very versatile apartment station offering excellent performance-to-cost ratio, thanks to the use of a traditional 4.5” kinescope.
Sentry+ video door phone is very versatile apartment station offering excellent performance-to-cost ratio, thanks to the use of a traditional 4.5” kinescope.
The following versions differ for the different arrangement of the cathode tube and the transmission standard:

CCIR version (50Hz)
- Basic (direct vision) with 1 door opener button and 2 service buttons. **Ref. 1704/1A**
- Basic (reflex vision) with 1 door opener button and 2 service buttons. **Ref. 1704/10A**

EIA version (60Hz)
- Basic (direct vision) with 1 door opener button and 2 service buttons. **Ref. 1704/8A**
- Basic (reflex vision) with 1 door opener button and 2 service buttons. **Ref. 1704/18A**

Note: *A suitable camera must be fitted in the door unit according to the transmission standard employed.*

The Sentry+ video door phone fastening bracket must be purchased separately according to the type of system to be installed.
Sentry+ direct vision versions can be tabletop mounted by using the specific transformation kit.

VERSION (DIRECT VISION) — 61 mm, 84 mm, 230 mm

VERSION (REFLEX VISION) — 99 mm, 230 mm

The device is provided with the following controls:
- one door opening button;
- two service buttons which can be used, for example, to switch on the staircase lights, open an additional lock or to implement automatic switch-on function;
- two potentiometers for adjusting picture brightness and contrast;
- one switch for three-position call tone volume adjustment (minimum, medium and maximum volume).

200 mm
230 mm
Service button
Service button
Door opener button
Call volume
Contrast adjustment
Brightness adjustment

SENTRY+ COAX BRACKET FOR DIGIVOICE Ref. 1704/92

The bracket can be used with 1038/35 and 1038/38 multiple video decoders. Functions include conversation privacy with calling station, 2 programmable service buttons, differentiated call tones and synchronous video and voice operation.
Possibility of connecting 1 monitor or 1 door phone in parallel.

DESCRIPTION OF TERMINALS

FA: voice out
FB: voice back
CA: calling button and reading
0V: digital earth
CV: video module control

V3: video signal
V5: video signal earth
V4: video signal input/output

R1: video earth
R2: video power
RT: video power input/output

WALL EMBEDDING VERSION (DIRECT VISION)

INSTRUCTIONS FOR WALL EMBEDDING

1. Arrange the cable conduit so that it ends in correspondence of the foreseen entrance hole.
2. Wall the embedding box (with the longest side placed horizontally) at the recommended height.
3. Fix the bracket to the embedding box by means of the two screws a1 and a2.
4. Fix the bracket to the wall by means of two screws and blocks b1 and b2.
5. Connect wires to the proper terminals by means of brackets’ slits.

A (STANDARD)
B

6. Pull out stop hook A.
7. Turn switch to B (see back of video door phone unit).
8. Place the monitor into the bracket.
9. Fix the monitor pushing the stop hook A towards the inside.

NOTE: *The monitor will not ring if the SENTRY + switch is turned to A by mistake.*

SENTRY COAX BRACKET FOR DIGIVOICE Ref. 1704/92
WALL MOUTING VERSION (REFLEX VISION)

DIGIVOICE

urmet DOMUS

DIGIVOICE/4+N VOICE ADAPTER Ref. 1038/67
PERFORMANCE - TECHNICAL SPECIFICATIONS

Ref. 1704/60
Ref. 1704/92
Ref. 1704/1A
Ref. 1704/8A
a1
a2
b1
b2
1,55 m
◇ = T1
○ = T2
A ⇨

WALL MOUTING VERSION (REFLEX VISION)

INSTRUCTIONS FOR FIXING THE BRACKET TO THE WALL

1. Pre-arrange the cable conduit so that it ends in correspondence of the foreseen entrance hole.
2. Fix, by means of the four screws, the bracket to the wall at the given height from ground.
3. Connect wires to the proper terminals.
4. Pull out stop hook **A**.
5. Turn switch to **B** (see back of video door phone unit).

A (STANDARD)
B

6. Insert the monitor in the bracket.
7. Block the monitor pushing stop hook A towards the inside.

NOTE: *The monitor will not ring if the SENTRY + switch is turned to A by mistake.*

Ref. 1704/10A
Ref. 1704/18A
Ref. 1704/92
◇ = T1
○ = T2
A ⇨
1,55 m

DIGIVOICE/4+N VOICE ADAPTER Ref. 1038/67

PERFORMANCE

- The Digivoice/4+n 1038/67 voice adapter is used to connect a Digivoice station to a traditional system, by suitably adapting the voice and calling levels and permitting user button reading (door opener, switchboard call, supplementary button).
- A door phone 1138 or 1138/2 can be connected in parallel to the 1038/67 on a Digivoice 1038/34, /35 or /38 decoder station.
- The following products can be connected without the addition of any other device to the 1038/67:
  - SCAITEL PABX;
  - electronic call door phone;
  - video door phone with traditional coax bracket.
- A relay box 788/1 can be inserted between the 1038/67 and the traditional voice internal station (door phone or video door phone) and a 786/1 or 789/5B power supply unit to make main Digivoice systems with secondary traditional systems (door phone or video door phone with 1 key). The secondary must be powered as in traditional systems.

DESCRIPTION OF TERMINALS

CA:	call and utility line	(Digivoice station)
FA:	voice out	(Digivoice station)
FB:	voice back	(Digivoice station)
CV:	video call	(Digivoice station)
+V:	power positive (+24V)	(Digivoice riser)
0V:	power earth	(Digivoice riser)
R1	riser video earth	
R2:	riser video power	
R2U:	monitor power	
G/T:	call repeat	
U1:	call repeat	
C:	switchboard call button	(internal station)
AT1:	supplementary button	(internal station)
9:	door opener button	(internal station)
CA1:	call	(internal station)
6:	voice earth	(internal station)
2:	external voice	(internal station)
1:	internal voice	(internal station)

TECHNICAL SPECIFICATIONS

Intake in terms of unitary loads:	**0.25 CU**
Power voltage +V,0V:	**13-25.2Vdc**
Working temperature range:	**-5°C +45°C**

OPERATION

The Digivoice/4+n voice adapter is used to connect a Digivoice station to a traditional internal station (PABX, door phone 1132, Sentry+ video door phone).
In the case of PABX, the telephones will ring when the floor is called.

Restrictions:
- Courtesy tones are not managed when 1038/67 is used.
- 1038/67 cannot be used in systems with switchboard sent to telephone.

A relay box 788/1 can be used to interface the Digivoice station with a traditional door phone or video door phone station. This is useful in single family houses with a secondary call station.

Restrictions in the case of a traditional secondary door phone or video door phone:
- A floor call will interrupt a conversation in progress on the secondary.
- The door cannot be opened from the main calling module following a call from the secondary (the main door openers must be private).
- There is a single calling tone, regardless of the source of the call (door phone or floor).

INSTALLATION

Install the device as shown in the figure.

All terminal board can be extracted to simplify maintenance operations. Furthermore, the boards are equipped with wire separators.
Remove the terminal board upwards to remove them. Use a screwdriver as a lever when required (see figure).

The device is equipped with four holes for fastening to the wall with expansion bolts (diameter 6 mm, not provided).

CONFIGURATION AND PROGRAMMING

The Digivoice/4+n 1038/67 voice adapter does not require configuration or programming.

POWER SUPPLY UNIT

DIGIVOICE

SECTION 6 CONTENTS

DIGIVOICE SYSTEM

Sec. Pag.

POWER SUPPLY UNIT

POWER SUPPLY UNIT WITH CIRCUIT BREAKER Ref. 1038/20

45 VA - 110 V AC POWER SUPPLY UNIT WITH CIRCUIT BREAKER Ref. 1038/26 .... 6 5

ADDITIONAL SPEECH SIGNAL POWER SUPPLY UNIT Ref. 1038/25

BACKUP POWER SUPPLY UNIT Ref. 1038/21

LOCAL POWER SUPPLY UNIT FOR 1 ADDITIONAL MONITOR Ref. 789/2

LOCAL POWER SUPPLY UNIT FOR 3 ADDITIONAL MONITORS Ref. 789/3

VIDEO POWER SUPPLY FOR 3 ADDITIONAL MONITORS Ref. 789/4 110/230V

VIDEO POWER SUPPLY UNIT Ref. 1742/20

SECONDARY CAMERA POWER SUPPLY UNIT Ref. 1840/22

POWER SUPPLY UNIT WITH CIRCUIT BREAKER Ref. 1038/20

FEATURES

Power supply unit with circuit breaker Ref. 1038/20 provides the following features:

- Supplies power to grouped DIGIVOICE devices.
- Supplies power to voice lines for one or more calling devices (entrance modules, guard door switchboard stations, etc.).
- Supplies power to data line.
- In the event of a data line short circuit, the circuit breaker automatically isolates the fault and ensures that the remaining parts of the system can continue to operate.
- Three LEDs indicate power supply unit operating status and provide diagnostic error signals.

TERMINAL DESIGNATIONS

Mains terminals

0	Mains input, 0 V AC
230	Mains input, 230 V AC

Logic and data power supply terminals

M1	Master power supply unit configuration input
M2	Master power supply unit configuration input
+V	Logic power supply output, +24 V DC
0V	Logic power supply output, 0 V DC
+VT	Backup unit power supply input, +VT
0VT	Backup unit power supply input, 0 VT
DU	Outgoing data line
DE	Incoming data line
0D	Data line ground

Voice line power supply terminals

+F	Voice line power supply output, +33 V DC
0F	Voice line power supply output, 0 V DC
+FT	Backup unit power supply input , +FT
0FT	Backup unit power supply input, 0 FT

SPECIFICATIONS

Power supply voltage:	**230 V ac ±10%**
+V-0V Logic output voltage:	**24 V dc ±5% 700 mA**
+F-0F Logic output voltage:	**33 V dc ±5% 65 mA**
Data line DU-0D output voltage: **(only for units configured as Master)**	**24V -7% to 5%**
Service temperature range:	**-5 to 45 °C**

STYLING AND DIMENSIONS

The power supply unit can be installed on a DIN rail, or can be wall mounted using screws and wall plugs.
Power supply unit dimensions are as follows:

Length:	180 mm (10 DIN modules)
Width:	96 mm
Height:	75 mm

LOGIC POWER SUPPLY +V-0V

The power supply unit is sized for a typical system configuration consisting of one entrance module with directory 1038/15 and 35 fourport decoders 1038/34.
Complex systems can be set up using two or more power supply units, each of which supplies a **separate** group of devices through output terminals +V/0V. **Never connect two or more power supply units in parallel.**

- Each power supply unit 1038/20 can be connected to a maximum of **70 Load Units** (LUs).

WARNING: Be sure to follow the instructions indicated in the section headed “Installation Requirements”.

VOICE LINE POWER SUPPLY +F-0F

The power supply unit can supply one or more calling devices.
In systems with a single voice line, the speech signal power supply unit can also be used to supply multiple entrance panels.
In systems with two voice lines, the speech signal power supply unit can be used to supply the voice line of a **SINGLE** entrance panel.
For the remaining entrance panels, use additional speech signal power supply units 1038/25.
In both cases, see the system diagrams provided in the Integrated Systems Technical Manual.

DATA LINE POWER SUPPLY DU-0D

The power supply unit can supply the data line for the entire system. In the event of a malfunction, the circuit breaker will automatically isolate the fault.
However, **only one of the power supply units 1038/20 in the system must supply the data line**. The power supply unit used for this purpose is referred to as the MASTER unit. All other power supply units are referred to as SLAVE units. A power supply unit is configured as the MASTER by connecting its terminals M1 and M2 together.

Notice: The data reference ground (0D) of all SLAVE power supply units must be connected to terminal 0D on the MASTER power supply unit using a dedicated conductor. For examples of wiring layouts, see the Integrated Systems Technical Manual.

DATA LINE ISOLATION

In the event of a short circuit on the data line, the power supply unit circuit breaker isolates the fault to ensure that all remaining devices can continue to operate.

Case A

If the fault occurs on the outgoing data line connected to a riser cable power supply unit, only the devices in the secondary riser cable concerned will be isolated. The remaining portions of the system will continue to operate:

Case B

If the fault occurs on the incoming data line, each power supply unit on the riser cable will isolate the line so that the devices in the secondary riser cable connected to the unit can continue to operate:

SLAVE DU DE — SLAVE DU DE — SHORT CIRCUIT — DU DE MASTER — ISOLATED

DU DE / DU DE = ISOLATED 1038/20

DU DE = OPERATING 1038/20

INSTALLATION

To facilitate installation, carry out the following operations:

1) With the system off, connect wiring to all devices and power supply units.
2) Check that ONLY ONE power supply unit in the system is configured as the MASTER unit (i.e., has its terminals M1 and M2 connected together).
3) Check that no conductors are connected to MASTER power supply unit terminal DE.
4) Check that at least one conductor is connected to each terminal DE and DU on the SLAVE power supply units.
5) After the above checks have been carried out, supply power to the system and check that ALL power supply units are operating (see the following section).

Note: *Power supply units will be activated within 5 seconds. Correct MASTER-SLAVE configuration is checked automatically, but ONLY upon activation.*

DIAGNOSTICS AND TROUBLESHOOTING

Three LEDs are provided on the top of the power supply unit housing:

LED	Colour		Meaning
DU	ROSSO / *RED*	=	CORTOCIRCUITO SU LINEA DATI USCENTE / *SHORT-CIRCUIT ON OUTGOING DATA LINE*
ON	VERDE LAMP. / *FLASHING GREEN*	=	ALIMENTATORE MASTER / *MASTER POWER SUPPLY*
	VERDE / *GREEN*	=	ALIMENTATORE SLAVE / *SLAVE POWER SUPPLY*
	ROSSO / *RED*	=	PIU' ALIMENTATORI IN PARALLELO / *SEVERAL POWER SUPPLIES IN PARALLEL*
	ROSSO LAMP. / *FLASHING RED*	=	PIU' ALIMENTATORI MASTER NELL'IMPIANTO / *SEVERAL MASTER POWER SUPPLIES*
DE	ROSSO / *RED*	=	CORTOCIRCUITO SU LINEA DATI ENTRANTE / *SHORT-CIRCUIT ON INCOMING DATA LINE*

DU ON DE

ON: Two-color LED. Turns green to indicate that +V-0V power is supplied, or red to indicate an error condition (see table below). If the LED is off, no +V-0V power is supplied. However, +F-0F voice line voltage is present at all times.

DU: Red LED. Turns on if there is a short circuit on the outgoing data line.

DE: Red LED. Turns on if there is a short circuit on the incoming data line.

Troubleshooting summary:

SITUATION	"ON" LED	"DE" LED	"DU" LED
MASTER OK	Flashing green	Off	Off
SLAVE OK	Green	Off	Off
1) Several power supplies in parallel on +V	Red	Off	Off
2) Several MASTER power supplies in system	Flashing red	Off	Off
3) Short circuit on incoming data line	Green	Red	Off
4) Short circuit on outgoing data line	Off	Off	Red

1) Turn off the system, check wiring connections on all terminals +V, and turn system back on.
2) Turn off the system, check that terminals M1-M2 are connected together on only one power supply unit, and that the latter's terminal DE has no conductors connected to it. Turn the system back on.
3) May also occur on SLAVE power supply units whose terminal DE is not connected to terminal DU on the MASTER power supply unit. The power supply unit circuit breaker will isolate the data line, and will automatically reset when the cause of the problem is eliminated.
4) In this case, the power supply unit cuts off power to terminals +V-0V for 5 seconds, and then restores power and checks whether the fault persists. If it does, the unit cuts off power again, making successive attempts every 60 seconds until the problem is eliminated.

SLAVE: ~ 0, 230, +F, 0F, M1, M2, +V, 0V, DU, DE, 0V

MASTER: 0, 230 ~, DE, 0D, M1, M2, 0F, +F, DU, 0V, +V

45 VA - 110 V AC POWER SUPPLY UNIT WITH CIRCUIT BREAKER Ref. 1038/26 ☐ CE

This power supply unit has the same features as unit Ref. 1038/20, differing from it only as regards supply voltage (110 V AC rather than 230 V AC).

ADDITIONAL SPEECH SIGNAL POWER SUPPLY UNIT Ref. 1038/25 ☐ CE

75 mm
103 mm
72 mm

The additional speech signal power supply unit is used in double voice channel systems where the calling device receives its logic power (+V/0V) from a power supply unit which is already used to supply another calling device.
The device provides the following features:

- Supplies power to a single calling device (entrance module, guard door switchboard station, digitizer or special doorphone).
- Makes it possible to connect a standby power supply unit to output terminals in order to supply devices in the event of mains power failure.
- Protects output from short circuits by means of a fuse connected to secondary.

STYLING AND DIMENSIONS

The power supply unit can be installed on a DIN rail, or can be wall mounted using screws and wall plugs.
Power supply unit dimensions are as follows:

Length: 72 mm (4 DIN modules)
Width: 103 mm
Height: 75 mm

BACKUP POWER SUPPLY UNIT Ref. 1038/21 ☐ CE

PERFORMANCE

The Digivoice 1038/21 backup power supply unit is used to power on of the following devices in the event of a blackout (**230VAC only**):
1038/20 Digivoice 230VAC basic power unit
1038/25 Supplementary voice power unit
826/26 Basic 826 system power unit

Three LEDs are arranged on the top to indicate the operation of the power unit.

NOTE: *The voice power section only will be used if the backup power supply unit is used to backup a voice power unit 1038/25; only the digital section will be used if the backup power supply unit is used to backup a power unit 826/26.*

STRUCTURE

1. Top
2. Battery terminals and output +VT/0VT
3. 230 Vac mains terminals
4. Mains terminal cover
5. Terminals +FT/0FT
6. LEDs

DESCRIPTION OF TERMINALS

0VAC: Mains power tension input
230VAC: 230Vac mains power tension input

+VT: output + for power units 1038/20 and 826/26
0VT: output + for power units 1038/20 and 826/26
+FT: output + for power units 1038/20 and 1038/25
0FT: output + for power units 1038/20 and 1038/25

+BAT: input + 12V battery
-BAT: input - 12V battery

TECHNICAL SPECIFICATIONS

Power voltage: **230Vac 50/60Hz**
Nominal battery recharging voltage: **13.8V dc**
Maximum battery recharging current: **300mAdc**
Maximum total output current (+VT/0VT and +FT/0FT) in backup conditions: **1.3 Adc**
Average autonomy (maximum charge): **(*) 1h 20'**

(*) For 12V 7.5Ah batteries

STYLING AND DIMENSIONS

The power supply unit can be installed on a DIN rail, or can be wall mounted using screws and wall plugs.

Power supply unit dimensions are as follows:
Length: 180 mm (10 DIN modules)
Width: 96 mm
Height: 75 mm

INSTALLATION INSTRUCTIONS

The device 1038/21 can be installed on a 35 mm DIN bar.
The backup power supply unit must be connected to the power unit using a wire with a minimum cross section area of 2.5 m^2 (digital section) and 1.5 mm^2 (voice section).
The maximum distance between power unit and backup power supply unit must be < 10 metres.
The maximum distance between backup power supply unit and the respective battery must be < 2 metres. Use a wire with a minimum cross section area of 2.5 mm^2.

N.B. *The battery is not provided.*

NOTE: *Proceed as follows to correct connect the backup power supply unit 1038/21 to the system:*
- *Connect the 1038/21 and the power unit to be backed up to the same one pole network switch to prevent incoherent signals.*
- *Make the connections shown in the wiring diagrams when the system is off.*
- *Connect the battery to the respective terminals and check that all LEDs are off (the power unit is not backing up).*
- *Power the mains and check that the green LED lights up.*
- *Connect the mains and check that the yellow LED lights up and the green LED goes out. Check correct operation of the system.*
- *Power from the mains.*

The 1038/21 unit will stop powering its outputs (+VT, 0VT; +FT, 0FT) when the red LED blinks. In this case, disconnect the mains and eliminate the cause of the fault. Connect the mains and check the green LED comes on and that the other two LEDs are off.

MEANING OF THE LEDs

The power backup status is indicated by three LEDs as follows.

	GREEN LED	YELLOW LED	RED LED
Network presence and battery loading	ON	OFF	OFF
Power backup	OFF	ON	OFF
Overload (+VT/0VT) and network presence [1]	ON	OFF	LAMP
Overload (+VT/0VT) during backup	OFF	ON	LAMP
Reversed battery	OFF	OFF	ON
Flat battery, no battery or no mains	OFF	OFF	OFF

[1] This signal will also appear if the battery is not connected or the power unit to be backed up is not connected to the mains.

LOCAL POWER SUPPLY UNIT FOR 1 ADDITIONAL MONITOR Ref. 789/2

Power supply unit Ref. 789/2 is used to supply the camera provided at the main entrance panel.

DESCRIPTION OF TERMINALS

RL	Continuous voltage output (positive)
R1	Continuous voltage output (earth)
R2 in	R2out switch on input (positive)
R2 out	Monitor supply output (positive) switch on from R2in

ELECTRICAL PROPERTIES

Power supply:	**230 Vac ± 10% 50/60 Hz**
Apparent power rating:	**28 VA**
Outputs:	**R2 out 0.65 A int.**
	RL 0.02 A
	V2 0.02 A
Protection:	**PTC thermistor (*)**
Service temperature range:	**-5°C to 45°C**
Average power dissipation after 1 hour of service:	**4.2 W**

(*) If the PTC thermistor cuts in as a result of overload, cut off mains voltage for at least 60” to reset the unit.

STYLING AND DIMENSIONS

The power supply unit can be installed on a DIN rail, or can be wall mounted using screws and wall plugs.
Power supply unit dimensions are as follows:

Length:	126 mm (7 DIN modules)
Width:	96 mm
Height:	75 mm

LOCAL POWER SUPPLY UNIT FOR 3 ADDITIONAL MONITORS Ref. 789/3

126 mm
75 mm
90 mm
96 mm

Power supply unit Ref. 789/3 is used to supply the monitor column and the secondary entrance panel.

DESCRIPTION OF TERMINALS

RL	Continuous voltage output (positive)
R1	Continuous voltage output (earth)
R2 in	R2out switch on input (positive)
R2 out	Monitor supply output (positive) switch on from R2in

ELECTRICAL PROPERTIES

Power supply:	**230 Vac ± 10% 50/60 Hz**
Apparent power rating:	**38 VA**
Outputs:	**R2 out 1.35 A int.**
	RL 0.02 A
	V2 0.02 A
Protection:	**PTC thermistor (*)**
Service temperature range:	**-5°C to 45°C**
Average power dissipation after 1 hour of service:	**5.7 W**

(*) If the PTC thermistor cuts in as a result of overload, cut off mains voltage for at least 60” to reset the unit.

STYLING AND DIMENSIONS

The power supply unit can be installed on a DIN rail, or can be wall mounted using screws and wall plugs.

Power supply unit dimensions are as follows:

Length:	126 mm (7 DIN modules)
Width:	96 mm
Height:	75 mm

Electrical connections are made using screw-on terminal board.
The maximum cross-section area of the wires to be connected to the terminal boards is 1.5 mm^2.

DIGIVOICE

VIDEO POWER SUPPLY FOR 3 ADDITIONAL MONITORS 110/230V Ref. 789/4

VIDEO POWER SUPPLY UNIT Ref. 1742/20

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VIDEO POWER SUPPLY FOR 3 ADDITIONAL MONITORS 110/230V Ref. 789/4 ☐

126 mm
75 mm
90 mm
96 mm

Power supply unit Ref. 789/4 is used to supply the monitor column and the secondary entrance panel.
The device is foreseen for 110 Vac mains feeding.
If used with 230 Vac mains feeding, connecting boards links must be respected as per Scheme A.

SCHEME A

P1 P2 P3 P4

0 ~ 230

P1 P2 P3 P4

0 ~ 110

ELECTRICAL CHARACTERISTICS

Supply voltage:	**110/230 V ca ± 10% 50/60 Hz**
Power:	**38 VA**
Outputs:	**R2 out 1,35 A int.**
	RL 0,02 A
	V2 0,02 A
Protection:	**With PTC (*)**

(*) If the PTC protection is tripped due to overload, cut off mains voltage for at least 60” to reset.

APPEARANCE AND DIMENSIONS

The power unit may be fitted on DIN bar or on wall with two bolts.
Connections are made using screw terminal board.
The maximum cross-section of the wires accepted by the terminal strips is 1.5 mm^2.

DIMENSIONS

Lenght:	126 mm (7 DIN 18 mm modules)
Width:	96 mm
Height:	75 mm

VIDEO POWER SUPPLY UNIT Ref. 1742/20 ☐ CE

Power supply unit Ref. 1742/20 is used to supply the monitor riser cable and secondary entrance panels.

ELECTRICAL PROPERTIES

Input voltage:	**110/230 Vac ±10% 50/60Hz**
Apparent power rating:	**38 VA**
Output:	**0-+20 19.3 Vdc nom., 0.2A max.**
Output:	**R1-R2 19. 3 Vdc nom., 1A max. int.**
Protection:	**PTC thermistor (*)**
Service temperature range:	**-5°C to 45°C**

(*) If the PTC thermistor cuts in as a result of overload or short circuit, cut off mains voltage for at least one minute to reset the unit.

STYLING AND DIMENSIONS

The power supply unit can be installed on a DIN rail, or can be wall mounted using screws and wall plugs.

Power supply unit dimensions are as follows:

Length:	180 mm (10 DIN modules)
Width:	96 mm
Height:	75 mm

SECONDARY CAMERA POWER SUPPLY UNIT Ref. 1840/22

45 mm
69 mm
65mm

Power supply unit Ref. 1840/22 is used to supply 12 V DC to up to four video splitters Ref. 1794/4.

ELECTRICAL PROPERTIES

Power supply:	**230 Vac ± 10% 50/60 Hz**
Apparent power rating:	**5 VA**
Secondaries:	**12 Vdc ± 5% 0.15 A**
	24 Vac ± 5% 0.20 A
Protection:	**PTC thermistor**
Average power dissipation after 1 hour of service:	**0.5 W**

STYLING AND DIMENSIONS

The power supply unit can be installed on a DIN rail, or can be wall mounted using screws and wall plugs.

Power supply unit dimensions are as follows:
Length: 65 mm
Width: 69 mm
Height: 45 mm

RELAY

DIGIVOICE

SECTION 7 CONTENTS

DIGIVOICE SYSTEM

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RELAY

RELAY FOR VIDEO DOORPPHONE SYSTEMS Ref. 1038/68

VIDEO SWITCH 4 IN -1 OUT Ref. 1038/69

RELAY FOR SPECIAL VIDEO DOORPHONE SYSTEMS Ref. 1032/9

RING REPEATER RELAY Ref. 788/21

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RELAY FOR VIDEO DOORPPHONE SYSTEMS Ref. 1038/68

VIDEO SWITCH 4 IN -1 OUT Ref. 1038/69

DIGIVOICE

RELAY FOR VIDEO DOORPPHONE SYSTEMS Ref. 1038/68

120 mm
55 mm
120 mm

With relay Ref. 1038/68, all of the Digivoice system's voice communication capabilities can also be extended to the video section. The relay is equipped with a special video synchronization detector circuit which makes it possible to determine whether the voice channel currently in use is associated with a video signal, and thus activate power supply to the monitors on the calling riser cable.
Thus, if a call is received from an outdoor station which is not equipped with a camera, the called monitor will remain off, preventing the unsightly white screen effect.
Power supply to the riser cable is cut off when the call ends.

DESCRIPTION OF TERMINALS

+V Device power input (positive)
0V Device power input (ground)

SC Relay control input video - column
SL Relay control input video - local
S12 Relay control input video - channels 1 and 2

R2 Video section power input (positive)
R1 Video section power input (ground)
+TC Local camera power output (positive)
R2C Column video section power output (positive)

V5 Signal output video (coax) - column
V3 Signal output video (sheath) - column
V31 Signal input video (coax) - channel 1
V51 Signal input video (sheath) - channel 1

V52 Signal input video (coax) - channel 2
V32 Signal input video (sheath) - channel 2
V3L Signal input video (coax) - local camera
V5L Signal input video (sheath) - local camera

SPECIFICATIONS

Dimensions in mm:	**120 (L) x 120 (W) x 55 (H)**
Consumption in load units (LU):	**5 LU**
Max. current draw at terminals R2/R1:	**80 mA**

VIDEO SWITCH 4 IN -1 OUT Ref. 1038/69

Video switch Ref. 1038/69 can be used in the following Digivoice system configurations:

1. **Switching between main video door phone units:**
   The device switches 4 video signals (I1, I2, I3 and I4) only a single output (U) by controlling 4 inputs (RE, RF, RG and RH) and power selection of the respective camera.
2. **Main video door phone unit and surveillance camera auto-on (special decoder Ref. 1038/80) is required in this case:**
   The user can select auto-on function on the calling module and switch onto the other cameras connected to the device by pressing the auto-on button on the door phone.

In addition to the 4 control signals, the device is equipped for this purpose with an input terminal (T) which can be connected to a button for switching the 4 inputs in turn onto the output independently with respect to the control signals (RE, RF, RG and RH).
The number of inputs which can be switched in turn by pressing button T can be programmed by means of specific jumpers (from 2 to 4 inputs).

NOTE: *A jumper must be connected between RES and 0V terminals if button T is not used.*

SPECIFICATIONS

Power voltage (+V,0V):	**16÷25 Vdc**
Intake in terms of unitary loads:	**1 UL**
Working temperature range:	**from -5 to +50 °C**
Humidity:	**90%RH at 30 °C**
Maximum distance between button contacts and terminals (T, RES, 0V)=	**300 m**
Dimensions in mm:	**120 (L) x 120 (W) x 55 (H)**

DESCRIPTION OF TERMINALS

R2 Camera power input (positive)
+V Device power input (positive)
0V Device power input (ground)

I1 oax video signal input - video door phone unit 1
V5 Video signal ground input (sheath) - video door phone unit 1
TC1 Camera power output - video door phone unit 1
RE Video relay control input - video door phone unit 1

I2 Coax video signal input - video door phone unit 2
V5 Video signal ground input (sheath) - video door phone unit 2
TC2 Camera power output - video door phone unit 2
RF Video relay control input - video door phone unit 2

I3 Coax video signal input - video door phone unit 3
V5 Video signal ground input (sheath) - video door phone unit 3
TC3 Camera power output - video door phone unit 3
RG Video relay control input - video door phone unit 3
I4 Coax video signal input - video door phone unit 4
V5 Video signal ground input (sheath) - video door phone unit 4

TC4 Camera power output - video door phone unit 4
RH Video relay control input - video door phone unit 4

I5 Coax video signal input (for cascade connection; de-energised passing through "U" terminal)
V5 Video signal ground input (sheath)

U Coax video signal output
V5 Video signal ground output (sheath)

T Button input
0V Button ground
RES Reset input

Set the jumper on the device to the position shown in the table according to the number of cameras used:

Nr. of cameras	*JP1*	*JP2*	*JP3*	*FUNCTION*
2	*ON*	*-*	*-*	*Video signal switch I1÷I2*
3	*-*	*ON*	*-*	*Video signal switch I1÷I2÷I3*
4	*-*	*-*	*ON (*)*	*Video signal switch I1÷I2÷I3÷I4*

(*) Factory presetting

RELAY FOR SPECIAL VIDEO DOORPHONE SYSTEMS Ref. 1032/9

The relay is used for power supply and video signal isolating and/or switching in a Digivoice system.

A2 A3 A1 B2 B3 B1 C2 C3 C1 V2 V3 V1

DESCRIPTION OF TERMINALS

+24 Device power input 24 Vdc (positive)
-24/-12 Device power input (ground)
RA/RB Relay control input video - column

SPECIFICATIONS

Dimensions in mm:	**120 (L) x 120 (W) x 55 (H)**
Consumption in load units (LU):	**3 LU**

RING REPEATER RELAY Ref. 788/21

Double-pole relay can control circuits with voltages not exceeding 24 V and 5 A maximum current.

The relay can be installed on a DIN rail, or can be wall mounted using screws and wall plugs.

Dimensions:
Length: 72 mm (4 DIN modules)
Width: 90 mm
Height: 75 mm

Container consists of ABS plastic.

Connections are made via screw terminal strips with saddle type clamps.
Terminal strips are designed for a maximum conductor cross section of 1.5 mm^2.

DESCRIPTION OF TERMINALS

~12 Device power input
~0 Device power input
C Electronic call input
6 Electronic call input (ground)

SC124-0039A

PROGRAMMING DEVICES ACCESSORIES

Sec. Pag.

PROGRAMMING DEVICES - ACCESSORIES

MULTI-LINGUAL PROGRAMMING TERMINAL Ref. 1038/56

VIDEO DISTRIBUTOR Ref. 1794/4

PASSIVE WIRING BLOCK Ref. 1038/90

GUARD DOOR SWITCHBOARD STATION/ TELEPHONE INTERFACE OR PABX ADAPTER CIRCUIT Ref. 1038/70

FREE-HANDS DEVICE Ref. 1138/55 FOR DOOR PHONE Ref. 1138/6 - Ref. 1138/7

DIGIVOICE

SECTION 8 CONTENTS

DIGIVOICE SYSTEM

urmet DOMUS

MULTI-LINGUAL PROGRAMMING TERMINAL Ref. 1038/56

1 Display contrast control

2

3 Power supply 12V ⎓ 200mA

+ –

FEATURES

The programming terminal Ref.1038/56 can be used to program all DIGIVOICE system devices, with the exception of the switchboard 1038/40 and special house phone 1138/18, directly via the keyboard. **In particular, decoding programming can also be carried out WHEN THE SYSTEM IS OFF**.

Additionally, the device can interface by means of the specific DVOICE software with a personal computer for managing the Call Module with Repertory Ref. 1038/15-/12-/16 name database programming.
The DVOICE software can be downloaded free of charge from the Urmet Domus Internet site at http://www.urmetdomus.com.
The programming terminal is equipped with an alphanumeric keyboard with 48 keys and five function keys. Data is displayed on a four 16 character line back-lit LCD.
The terminal is normally powered by means of a 9V alkaline battery although, in some cases, the device can be directly powered by the devices to be programmed. An additional set-up allows power connection to the mains via an adapter.

STANDARD ACCESSORIES

The programming terminal 1038/56 is equipped with two wires:

The “Terminal-Device” wire leads to an eight-pin male minidin plug and is used to interface the terminal with the DIGIVOICE devices to be programmed.

The “Terminal-PC” wire leads to a DB9 female plug and is used to interface the terminal with a Personal Computer.

SPECIFICATIONS

POWER SUPPLY

The terminal can be powered via:

Battery:
9V alkaline, PP3 or 6LR61; (not provided)

Mains:
Stabilised power supply, EC complying, 12Vdc ±10%, minimum 200mA, with plug featuring a central pin with diameter 1.3mm connected to the negative. (not provided)

POWER CONSUMPTION

From battery:
Without display lighting: **Max. 20 mA**
With display lighting: **Max. 40 mA**

From mains:
Maximum intake in terms of unitary loads: **5 UL**

OPERATIVE RANGE

Operating temperature: **from -5 to +45°C**
Humidity: **95% RH at 30°C**

BASIC FUNCTIONS

ACTIVATION

You should switch the terminal on BEFORE connecting it to the devices.
Hold the “On” button pressed for longer than three seconds to switch the terminal on. This precaution prevents switching the device on by mistake. A beep will be heard to confirm that the terminal is on. The following introductory screen will appear on the display in the selected language for a few seconds:

```
1038/56

Version x.y
```

where “x.y” indicates the software version. The introductory screen will be followed by the main screen:

```
Connect wire
to program
<Configur.>
<Database> <PC>
```

NOTE: *If the programming wire is connected to a device, the main screen may be different.*

DISPLAY BACKLIGHTING

You can switch the display back-lighting on or off in any moment by pressing the yellow key on the terminal.

NOTE: *When battery powered, the display lighting will switch off automatically 30 seconds after pressing the last key.*

DISPLAY CONTRAST ADJUSTMENT

You can adjust the display contrast by turning the trimmer screw with a small slot screwdriver. You can reach the screw through the hole on the back of the terminal.

DEACTIVATION

You should switch the device off AFTER disconnecting the devices. Hold the "Off" button pressed for longer than three seconds to switch the terminal off. This precaution prevents switching the device off by mistake.

NOTE: The unit will automatically be switched off in the following cases when it is battery powered:
A) If no key is pressed for three minutes (this function is disabled when up/downloading data to/from the Call Module with Repertory or the PC).
B) When the terminal acknowledges that the battery is flat.

BATTERY REPLACEMENT

The terminal constantly monitors the battery voltage during battery powered operation. The following functional modalities are offered:
A) Caution, the battery is nearly flat: a battery icon will flash on the display and a beep will be heard every three seconds.
B) Intervention required, the battery is flat: the beep frequency triplicates and the terminal is automatically switched off after 20 seconds.

In both cases, replace the battery as soon as possible. A 9V alkaline battery, PP3 or 6LR61, is required.

OPERATING LANGUAGE

Select the option <Configur.> on the main screen form. Then select the operating language by pressing the 'sp' key as many times as necessary and confirm with ↵.
Display messages will be shown only in English, French and Italian.
If another language is selected, messages will appear in English.
However, special characters used in the selected language can be entered in the names (see paragraph headed ("Entering a name").
Attention: Check that the selected language is accepted by the external device to be programmed.

INDOOR AND OUTDOOR EQUIPMENT

Use the "Terminal-Device" connection wire for programming the devices.

The devices which can be programmed via the terminal can be split into two groups:
"Internal" devices, which are programmed directly on the connector of the device to be programmed (e.g. system on or off):
- Four user decoder 1038/34
- Four user decoder arranged for video, floor call and door open LED 1038/35
- House phone with single decoder 1138/31
- etc.

"External" devices, which can be programmed centrally. Access to all the "External" devices in the system can be achieved by connected to any "External" device, to the Porter's lodge switchboard Ref. 1038/40 or to a passive socket Ref. 1038/90:
- Call module 1038/10
- Call module with repertory 1038/15-/12-/16
- etc.

NOTE: *The system must be on to program "External" devices.*

PROGRAMMING INDOOR EQUIPMENT

FOUR-PORT DECODER Ref. 1038/34 or 1038/35

The system can be programmed both when it is ON or OFF. This means that the decoders can be programmed as soon as they are installed also before completing the system.

- Hold the "ON" button pressed for longer than three seconds to switch the terminal on.
- Insert the programming wire in the specific socket. The terminal will automatically acknowledge the device. The following will appear on the display:

```
Four users
Decoder
```

Then the data currently stored in the decoder will appear, split into two pages:

```
Column:RR
---------
A:RRRA B:RRRB
C:RRRC D:RRRD
```

```
A-1:0000 2:0000
B-1:0000 2:0000
C-1:0000 2:0000
D-1:0000 2:0000
```

Note: the column and user codes containing the letter "R" are reserved for the factory pre-programming of the device.

- Program the column code, the user codes and the additional button codes (the latter for house phone 1138/2 only) by using the alphanumeric keys, the ← and → keys to scroll and the ↵ key to confirm.
- Press → (or ←) several times to go to the following page:

```
<Cancel>
<Program>
```

- Position the cursor on the "Program" option and press ↵. The terminal will write the set data to decoder, display writing outcome, re-read the data actually stored in decoder and display the data for an additional check.
- Check the data.
- Disconnect the programming wire from the decoder and hold the "OFF" button pressed for three seconds or longer to switch the terminal off.

NOTE: *Select "Cancel" instead of "Program" to cancel the entered data. Each field will be filled with the previous value.*

EIGHT USER DECODER Ref. 1038/38

The device can be programmed either with the system POWERED or NOT POWERED.In this way, the decoders can be programmed immediately after being installed,also before the system is finished.

- Hold the "ON "button pressed for at least two seconds to switch the terminal on.
- Plug the programming cable in the specific socket. The terminal will automatically recognise the device.
  The following will appear on the display:

```
Decoder
Eight user
```

The data currently stored in the decoder will appear on four pages:

```
Column:RR
A:RRRA        B:RRRB
C:RRRC        D:RRRD
```

```
Column:RR
E:RRRE        F:RRRF
G:RRRG        H:RRRH
```

```
A-1:0000 2:0000
B-1:0000 2:0000
C-1:0000 2:0000
D-1:0000 2:0000
```

```
E-1:0000 2:0000
F-1:0000 2:0000
G-1:0000 2:0000
H-1:0000 2:0000
```

NOTE: *The column and user codes containing letter "R "are pre-programmed factory codes reserved for all devices.*

- Use the alphanumeric keys, buttons ← and → to move and button ↵ to confirm. Program the column code, the user codes and, in the case of 1138/2 door phone only, the additional button codes.
- Press button → (or ←) repeatedly to go to the following page:

```
<Delete>
<Program>
```

- Position the cursor on "Program "and press ↵. The terminal will write the set data in the decoder, display the writing operation outcome, re-read the data stored in the decoder and represent the data for a final check.
- Check the data.
- Disconnect the decoder programming wire and switch the terminal off by holding the "OFF "button pressed for at least two seconds.

NOTE: *Select "Cancel "instead of "Program "to cancel all entries.The previous value will appear in the field.*

SPECIAL DECODER Ref. 1038/80

The device can be configured either with the system POWERED or NOT POWERED.In this way, the decoders can be configured immediately after being installed, also before the system is finished.

- Hold the "ON "button pressed for at least two seconds to switch the terminal on.
- Plug the programming cable in the specific socket. The terminal will automatically recognise the device. The following will appear on the display:

```
Special
Decoder
```

The data currently stored in the decoder will appear on two pages:

```
RELAY MODE: MONOST
T MONOST:00: 00
READING?: YES
```

```
SOURCE: QUAL
DEST.: QUAL
<Delete>
<Program>
```

- Use the numeric buttons, the "sp "button to select the fields, the buttons ← and → to move and button ↵ to confirm to program the data.
- Press button → (or ←),repeatedly to take the cursor to "Program "and press ↵. The terminal will write the set data in the decoder, display the writing operation outcome, re-read the data stored in the decoder and represent the data for a final check.
- Check the data.
- Disconnect the decoder programming wire and switch the terminal off by holding the "OFF "button pressed for at least two seconds.

NOTE: *Select "Cancel "instead of "Program " to cancel all entries. The previous value will appear in the field.*

DIGIVOICE

VIDEO DISTRIBUTOR Ref. 1794/4
PASSIVE WIRING BLOCK Ref. 1038/90

urmet DOMUS

VIDEO DISTRIBUTOR Ref. 1794/4

Video distributor Ref. 1794/4 is used to distribute the video signal in accordance with installation requirements, i.e.:

- On multiple riser cables
- With signal splitting on each floor.

The distributor provides four outputs for 4 branch lines.

DESCRIPTION OF TERMINALS

R2	Power input (positive)
R1	Power input (earth)
E	Coax input
V1	Coax output 1
V2	Coax output 2
V3	Coax output 3
V4	Coax output 4
V5	Coax output 5 or output for other distributor

ELECTRICAL PROPERTIES

Power supply:	**12 to 20 Vdc**
Input impedance:	**75 Ω**
Output impedance:	**75 Ω**

Dimensions are as follows:

Length: 95 mm
Width: 64 mm
Height: 28 mm

PASSIVE WIRING BLOCK Ref. 1038/90

INSTALLATION

Passive wiring block can be secured to the wall by means of the bracket supplied with the unit and two 3 mm diameter wall plugs (not supplied) It can also be mounted on a 35 mm DIN rail.

To gain access to connecting terminals, pry off cover using a screwdriver as shown:

Wiring block can be installed at any point of the system as follows:

Check electrical connections before supplying power to the system. The DIGIVOICE programming terminal Ref. 1038/56 can be connected to the wiring block mini-DIN connector in order to program all DIGIVOICE devices in the system.

DIMENSIONS

Length: 36 mm (2 DIN 18mm modules)
Width: 103 mm
Height: 75 mm

ADDITIONAL DOORPHONE KEY Ref. 1132/55

Individual keys are supplied in packages of 10.
To install an additional key on doorphone Ref. 1138, proceed as follows:

- Remove the dummy key push cover on the doorphone casing in the position in which the additional key is to be installed. To do so, press the two tabs on the cover and push outwards.
- Clip the new key into the doorphone base.
- Install the new key push cover.

MUTE KEY + DIGIVOICE LED KIT Ref. 1138/52

1 2 3 4 5

FEATURES

Installing the Mute key + LED kit makes it possible to alert the user that an entrance door is open, deactivate the doorphone ringer when desired, and use the automatic door opener feature.

INSTALLATION INSTRUCTIONS

The kit can be installed only in Digivoice doorphone Ref. 1138/2, where it occupies the space of three keys. In addition, the system must be equipped with decoder Ref. 1038/35.

To install the kit, proceed as follows:

- Move the ringer unit away from its support (Figure 1).
- Take out key T2 or move it to another position. Key T1 should be left in place (Figure 1).
- Install printed circuit on base using two screws in the position shown (Figure 2).
- Check that the spacer is correctly positioned above the kit key.
- Remove the two dummy key push covers from positions 3 and 4 on doorphone casing (Figure 3).
- Install the two push covers with light channel supplied together with kit in the space formerly occupied by dummy keys (3 and 4, see Figure 4).
- Make electrical connections as shown in the wiring diagrams on the following pages.
- Return ringer unit to its seat and close doorphone casing (Figure 5).

INITIAL CONFIGURATION

CONFIGURATION WITH DOOR OPEN LED

CONFIGURATION WITH MUTE KEY

CONFIGURATION WITH AUTOMATIC DOOR OPENER

CONFIGURATION WITH MUTE KEY + DOOR OPEN LED

CONFIGURATION WITH AUTOMATIC DOOR OPENER + DOOR OPEN LED

CONFIGURATION WITH MUTE KEY + AUTOMATIC DOOR OPENER

CS 1138-001

AP

T1 T2 GT 0V CA FA FB

0V CA FA FB CP CV PA MU

Call from landing

T2

Ref. 1038/35

PA MU AP- GT 0V T2

Ref. 1138/52

T1

Ref. 1138/2

CONFIGURATION WITH MUTE KEY + AUTOMATIC DOOR OPENER + DOOR OPEN LED

CS 1138-001

AP

T1 T2 GT 0V CA FA FB

0V CA FA FB CP CV PA MU

Call from landing

T2

Ref. 1038/35

PA MU AP- GT 0V T2

Ref. 1138/52

T1

Ref. 1138/2

RINGER VOLUME CONTROL Ref. 1132/53

Accessory Ref. 1132/53 makes it possible to it adjust the volume of the doorphone ringing tone.
The device is installed inside the doorphone at the bottom of the casing. The device is provided with a lever which protrudes from the casing whereby volume can be adjusted to three levels:
Minimum - Medium – Maximum

min max
med

Connecting ringer volume control Ref. 1132/53 inside doorphone.

0V

0V

WHITE TABLETOP MOUNTING CONVERSION KIT Ref. 1132/50

Tabletop mounting conversion kit Ref. 1132/50 can be used to adapt the doorphone to tabletop installations.
Installation procedure is as follows:

- Insert the self-adhesive rubber feet supplied together with the kit in the associated seats on the base of the support.
- Route conductors through the doorphone and secure the doorphone base to the tabletop mounting support using the associated screws.
- Connect conductors to the doorphone terminal block.
- Reinstall doorphone top casing.
- Connect system conductors to the junction box terminals.

SUPPLEMENTARY RINGER FOR ELECTRONIC CALL TONE SIGNALING Ref. 9854/41

80mm
80mm
32m

The supplementary ringer must be connected in parallel to the doorphone's existing ringer unit. No ring repeater relay or power supply is required.
Only one supplementary ringer can be connected in parallel with the doorphone.

Connecting supplementary ringer Ref. 9854/41 in parallel with a doorphone.

SC124-0037A

TO SUBSEQUENT DECODERS
DOORPHONES
CA FA FB 0V AP G/T
0V +V D FA FB
MU
CA FA FB 0V B
C CA FA FB 0V
FOUR-PORT DECODER Ref.1038/34
CA FA FB 0V A
D CA FA FB 0V
ME
SUPPLEMENTARY RINGER Ref.9854/41
Alt
K Z
FROM DECODERS

SUPPLEMENTARY THREE-TONE RINGER Ref. 9854/42

The supplementary ringer must be connected in parallel to the doorphone's existing ringer unit. No ring repeater relay or power supply is required.
Only one supplementary ringer can be connected in parallel with the doorphone.
External power supply is not required, as the unit is provided with a non-rechargeable 9V internal battery (6AM-LF22).
The unit generates a three-tone ringing cadence. Ringing cadence can be changed to single-tone or two-tone by means of internal jumper connections.

Connecting supplementary three-tone ringer Ref. 9854/42 in parallel with a doorphone.

SC124-0038A

SUPPLEMENTARY THREE-TONE RINGING FOR BIBUS AND DIGIVOICE Ref. 1072/59

The two-tone supplementary ringer 1072/59 can only be used with special door phones Ref. 1138/18 and switchboards Ref. 1038/40.
The ringer power must be self-standing (by means of 9V battery 6AM6-6LF22) because it cannot be powered by the apartment station. Use the internal jumper settings to change the call tone.

Dimensions (length x width x height): 80 x 32 x 80 mm

Door phone ringer connection

SC124-0062

Switchboard ringer connection.

GUARD DOOR SWITCHBOARD STATION/ TELEPHONE INTERFACE OR PABX ADAPTER CIRCUIT Ref. 1038/70

In order to use the call rerouting feature, the telephone interface or PABX adapter circuit must be installed in the switchboard station Ref. 1038/40. In addition, the telephone to which calls will be rerouted must be connected to a PABX or provided with a telephone interface.

INSTALLATION

To install adapter circuit 1038/70, turn off switchboard station power supply and proceed as follows:

1) Using a small screwdriver, release the catch retaining switchboard station body to base plate.
2) Remove jumpers (50).
3) Insert adapter circuit 1038/70 (53) in connectors (52), taking care to orient it in the right direction (the longer connector is located adjacent to jumpers).
4) Connect the telephone interface or PABX to terminal block (51), routing cables through hole (11).
5) Reassemble switchboard station and supply it with power.

Note: *The telephone interface or PABX connecting cables must be less than 3 meters long.*

10 WAYS
53
52
12 WAYS
11
51
50

TERMINAL DESIGNATIONS

The connection terminal board on the switchboard bracket is provided with the following terminals:

CA Call
1 Voice out
2 Voice back
6 Ground
9 Door opener contact

CALL REROUTING

Using adapter circuit 1038/70 and a telephone interface or PABX, the calls received by the switchboard station can be rerouted to a standard or cordless telephone. For adapter circuit installation, see the section covering installation. A function key must be programmed to activate and deactivate the call rerouting feature.
Example: If key F2 was programmed for the call rerouting function (function 4), the display will show the following message when the key is pressed:

```
                >TEL
23/05/2000  08:10:00
0001
```

From this time onwards, the attendant can leave the switchboard station and receive calls made to it from apartment stations or entrance panels directly on his cordless phone. If a call is received from a main entrance panel, the attendant can also open the door by dialing R35 (systems equipped with PABX) or R5 (systems equipped with telephone interface).
Upon returning to the switchboard station, the attendant must press key F2 again to disable the call rerouting function.

FREE-HANDS DEVICE Ref. 1138/55 FOR DOOR PHONE Ref. 1138/6 - Ref. 1138/7

This device Ref. 1138/55 is an optional board for free-hands door phone 1138/6 in the 1038 digital system.
With this device, the 1138/6 free-hands door phone can be used without a handset. Furthermore, the remote "VOICE ON" and "T1" buttons are made available.

ELECTRICAL SPECIFICATIONS

Consumption during voice connection:	**< 4mA**
Conversation timeout:	**3 minutes ±25% (135÷225 s)**

INSTRUCTIONS

Install the device in a free-hands door phone 1138/6 and adapt operation for free-hands use. There are two possible operation methods which can be selected by means of the jumper:

FRA (Default)
ISR

JP1
ISR FRA

Furthermore, the remote "VOICE ON" and "T1" buttons can be fitted with the additional device. The buttons will be in parallel with those on the door phone and will have the same functions.

FRA method

The voice connection can be switched on and off by means of the "VOICE ON" button. The conversation can be made keeping the hands free. Press the button. The green "VOICE ON" LED will come on for up to three minutes. Press the button again. The LED will go out and the conversation in progress will be interrupted. The door can be opened within 8 seconds after switching the voice connection off.
The conversation can be picked up again in the same time by pressing the same button.

In any case, the connection will end after three minutes if you forget to press the "VOICE ON" button.

Press the "VOICE ON" button when the door phone is not in use. If a call is received within three minutes, the voice connection will be made for approximately 1.5 seconds and the door phone will pick up the call WITHOUT other actions by the user. Press the "VOICE ON" button and the "T1" button (which will have been programmed on the decoder) to call the switchboard. A courtesy tone indicating that the call has been stored will be heard if the switchboard operator does not take the call within 10 seconds. You can press the "VOICE ON" button again to wait for the switchboard operator to call back. The door phone will stand by for the conversation for three minutes if you do not press the button.

ISR method

As in the FRA method, the voice connection can be switched on and off by means of the "VOICE ON" button. The conversation can be made keeping the hands free.
The differences with respect to the FRA method exclusively concern calls to the switchboard. To call the switchboard, simply press the "T1" button, which naturally will have been programmed on the decoder. A courtesy tone indicating that the call has been stored will be heard if the switchboard operator does not take the call within 10 seconds. You can press the "VOICE ON" button again to wait for the switchboard operator to call back. The door phone will stand by for the conversation for three minutes if you do not press the button.

INSTALLATION

1138/55
PZ1
PZ2
PZ4
PZ3
T1
VOICE ON
≤ 2 m

1138/55
PZ1
PZ2
PZ4
PZ3
Cut off and electrically insulate wires not in use

SCAITEL MONITOR TABLETOP MOUNTING CONVERSION KIT Ref. 1732/56

Tabletop mounting conversion kit Ref. 1732/56 can be used to adapt the Scaitel monitor to tabletop installations.
Proceed as follows:

- Insert the four self-adhesive rubber feet supplied together with the kit in the associated seats on the base of the support (Figure 2).
- Open one of the 3 cable routing punch-outs provided in the base. Punch-outs are designated as "**a**" in Figure 2.
- Pass the junction box cable through the punch-out and secure using the clip and screw (α) supplied with the tabletop mounting support.
- Secure the bracket using associated screws (α) as shown in Figure 1.
- Connect junction box wires to the associated terminals on the bracket.
- Pull out monitor retainer "**A**" (Figure 1).
- Attach monitor to the bracket and secure by pushing retainer "**A**" inwards.
- Connect system conductors to the corresponding junction box terminals.

Fig.1

Fig.2

INSTALLATION TOGETHER WITH OTHER SCAITEL MODULES

To install a tabletop mounted monitor in combination with other Scaitel modules, proceed as follows:

- Insert the self-adhesive rubber feet supplied together with the units in the associated seats in the two tabletop mounting bases.
- Assemble the two tabletop supports, positioning the monitor support on the left.
  To assemble the supports, install connecting plates "**G**" and "**H**" by means of screws β (Figure 3) on front and spacer "**L**" on rear. Plates and spacer are supplied with the unit.
  To position connecting plates, first punch out areas **a**, **b**, **c** and **d** on the corresponding walls. For spacer "**L**" (γ), punch out walls **g** and **h** as shown in Figures 3 and 4.
- Secure monitor bracket and doorphone base to the associated supports using the screws provided (α) as directed above.
- Connect junction box wires to the associated terminals.
- For interconnections between the video module and doorphone, see the figure alongside. Areas e and f on the tabletop mounting support must be punched out in order to route connecting wires (Figure 5).
- Pull out monitor retainer "**A**" .
- Attach monitor to the bracket and secure by pushing retainer "**A**" inwards.
- Attach the device installed alongside the monitor to its base.
- Connect system conductors to the corresponding junction box terminals.

Fig. 3

Fig. 4

Fig. 5

α	5 x	3.5 x 13 mm
β	4 x	2.9 x 9.5 mm
γ	2 x	2.9 x 13 mm

TABLETOP MOUNTING CONVERSION KIT Ref. 1704/50

The 1704/50 tabletop mounting kit comprises a plastic support, a cord and socket.
Proceed as follows:

1. Fix, by means of the four screws, the bracket tothe table adaptation support, placing it as shown in the picture.
2. Connect the socket wires to the proper terminals.
3. Pull out the stop hook **A**, levering it with the point of a screwdriver.
4. Hook the monitor to the bracket.
5. Block the monitor pushing the stop hook **A** towards the inside.
6. Connect system conductors to the corresponding junction box terminals.

Ref. 1704/50

Ref. 1704/92

A

Ref. 1704/1A
Ref. 1704/8A

INSTALLATION DIAGRAMS

SECTION 9 CONTENTS

DIGIVOICE SYSTEM

DIGIVOICE

SECTION 9 CONTENTS

DIGIVOICE SYSTEM

urmet DOMUS

C4.013 - Fit a 9V (MN1604/6LR61) battery in the ringer.
The ringer is equipped with two jumpers indicated by W1 and W2.
Remove one of the two jumpers for two-tone or one-tone operation as shown in the following table:

SOUND TYPE	JUMPERS		
	W1	W2	
THREE-TONE	×	×	Both jumpers inserted
TWO-TONE	×		Jumper W1 only; remove W2
ONE-TONE		×	Jumper W2 only; remove W1

CD.001 - MINIMUM WIRE CROSS-SECTION AREAS

BETWEEN POWER UNIT AND LAST DECODER OR SPECIAL DOOR PHONE

Distance	m	230	460	760	1200
Wires 0V, +V	Sq.mm	0,75	1,5	2,5	4

BETWEEN POWER UNIT AND LAST SPECIAL DOOR PHONE

Distance	m	100	200	350	550
Wires 0F, +F	Sq.mm	0,75	1,5	2,5	4

BETWEEN POWER UNIT AND CALLING MODULE

Distance	m	20	40	70	110
Wires 0V, +V	Sq.mm	0,75	1,5	2,5	4

BETWEEN POWER UNIT AND DIGITISER

Distance	m	60	120	210	330
Wires 0V, +V	Sq.mm	0,75	1,5	2,5	4

BETWEEN POWER UNIT AND CALLING MODULE OR DIGITISER

Distance	m	75	150	250	400
Wires 0F, +F	Sq.mm	0,75	1,5	2,5	4

BETWEEN CALLING STATION AND LAST DECODER

Distance	m	1100	2250	3450	- -
Wires FA-FB (1-2)	Sq.mm	0,75	1,5	2,5	- -

BETWEEN MASTER POWER UNIT AND LAST DEVICE

Distance	m	580	1160	1800	- -
Wires D (Data)	Sq.mm	0,75	1,5	2,5	- -

BETWEEN MASTER POWER UNIT AND LAST SLAVE

Distance	m	350	700	1180	1800
Wires OD	Sq.mm	0,75	1,5	2,5	4

BETWEEN DECODER AND APARTMENT STATION

Distance	m	20	50	- -	- -
Wires CA-FA-FB CV-0V	Sq.mm	0,25	0,5	- -	- -

Lay the wires at a suitable distance from power lines (further than 30 cm where possible).

The maximum extension of DIGIVOICE system is 3500 m.

The extension corresponds to the distance between the calling device and the most distance decoder. Include the sum of all sections (column lines + common lines) for complex systems with several columns. Do not include extension lines from decoders to apartment stations.

CD.002 - The master power unit must be arranged in the middle of the system.

CD.005 - The calling module must be programmed with: PRIVATE DOOR OPENER [Segr.] (see programming chapter).

CD.006 - The digitiser/built-in door unit must be configured with: PRIVATE DOOR OPENER (see programming chapter).

CD.007 - The sum in terms of unitary loads (UL) of the devices (quadruple/single decoders, digitisers, etc.) connected to the column power unit must be less than the maximum UL which can be output by the power unit.
Refer to the integrated system technical manual for the consumption of the devices expressed in terms of UL.
N.B.: Relay box intakes must be included in the UL count.
Join the terminals 0D of power units if several are used in the column.
In all cases, the +V wires of the various power units must NEVER be connected to each other.

EXAMPLE OF CONNECTION OF SEVERAL POWER UNITS TO SEVERAL DOOR PHONES

CD.008 - The power unit must be positioned so that the wires to each calling station are less than 110 m long.

CD.009 - Example of connection between two calling modules when the distance exceeds 110 metres.

CD.012 - Key buttons.
Other buttons can be used to silence calls and reset the switchboard memory.

CD.013 - The sum in terms of unitary loads (UL) of the devices (quadruple/single decoders, digitisers, etc.) connected to the column power unit must be less than the maximum UL which can be output by the power unit.
Refer to the integrated system technical manual for the consumption of each device expressed in terms of UL.
N.B.: Relay box intakes must be included in the UL count.
Join the terminals 0D of power units if several are used in the column.
In all cases, the +V wires of the various power units must NEVER be connected to each other.

EXAMPLE OF CONNECTION OF SEVERAL POWER UNITS TO SEVERAL DECODERS

2nd series

POWER UNIT
Ref.1038/20
0D
0F
+F
+V
0V

1st series

POWER UNIT
Ref.1038/20
0D
0F
+F
+V
0V

CD.014 - The sum in terms of unitary loads (UL) of the devices (quadruple/single decoders, digitisers, etc.) connected to the column power unit must be less than the maximum UL which can be output by the power unit.
Refer to the integrated system technical manual for the consumption of each device expressed in terms of UL.
N.B.: Relay box intakes must be included in the UL count.
Join the terminals 0D of power units if several are used in the column.
In all cases, the +V wires of the various power units must NEVER be connected to each other.

EXAMPLE OF CONNECTION OF SEVERAL POWER UNITS TO SEVERAL CONCIERGE SWITCHBOARDS

2nd series

POWER UNIT
Ref.1038/20
0D
0F
+F
+V
0V

1st series

POWER UNIT
Ref.1038/20
0D
0F
+F
+V
0V

CD.016 - Maximum length of battery wiring: 2 metres of wire with minimum cross-section area of 2.5 mm≤.

CD.020 - Connect ringer terminal Z to the red speaker wire (AP) in door phones.

CD.021 - Connect ringer Ref. 9854/42 terminal CA to the red speaker wire (AP) in door phones.

CD.022 - Connect terminal C to the red speaker wire (AP) in door phones.

CU.003 - The door unit must be installed in a suitable set-up 2-row push-button panel (e.g. Mod. Aura or Mod. 725; or Mod. 825 for 1+1 systems).

V5.002 - Provide two wires for switching on the push-button panel light bulbs.
Use a power transformer suitable to the number of light bulbs.
The system transformer is sufficient from up to two light bulbs (max 6 W).
Use of transformer ref. 9000/230 is recommended for up to five bulbs (max 15 W).

VD.001 - MINIMUM WIRE CROSS-SECTION AREAS

BETWEEN POWER UNIT AND VIDEO DEVICES

Distance	m	50	100	200	400
Wires R1,R2,+TC	Sq.mm	0,75	1	1,5	2,5
COAXIAL CABLE 75 Ohm	Use a RG 59 coaxial wire for up to 300 m. Use a RG 11 coaxial wire for up to 600 m. Use video amplification devices for longer distances.				

VD.002 - See the chapter "Demister power" in the chosen product manual for K-Steel camera modules only.

VD.003 - The column power unit ref. ./.. can power up to ... video distributors.
Use one local power unit ref. 789/2 for each group of distributors (max. 12) after exceeding this limit.

EXAMPLE OF LOCAL CONNECTION WITH SEVERAL VIDEO DISTRIBUTORS.

VD.007 = Floor call button.

VX.001 - To use video distributor output U5, remove the 75 Ohm resistor fitted on the printed circuit.

VX.006 - See the instruction book provided with the product for fitting the accessory in the device.

VX.007 - The cross-section area of the wires indicated with ▬▬ must be double.

VX.008 - Connect the devices to a filter and power line protection device.

VX.010 - No more than 20 monitors should be connected to each column; add video distributors to the camera output or other device if there are more devices.

VX.011 - Close the coaxial wire on the last monitor in the riser with a 75 Ohm resistance between terminals V4 and V5.

VX.014 - Dusk switch or similar device for switching lights on, where relevant.

VX.023 - Terminal equivalence:
- RT (Sentry) = RD (Winflat).

DIGIVOICE

CONNECTION OF 1 DOOR PHONE COLUMN TO A CONCIERGE SWITCHBOARD AND TO 1 DOOR PHONE ENTRANCE STATION WITH BUILT-IN DIGITISER/ ENTRANCE UNIT

Urmet DOMUS

SC124-0112

DIAGRAM NOTES

(see beginning section)
CD.001
CD.002
CD.013
V5.002
VX.006
VX.008
VX.014

DOORPHONES ON TWO RISER CABLES CONNECTED TO 1 GUARD DOOR SWITCHBOARD STATION AND 2 DOORPHONE ENTRANCE MODULES

SC101-1185B

RISER CABLE 1
TO SUBSEQUENT DECODERS
DOORPHONES
FOUR-PORT DECODER Ref.1038/34
RISER CABLE POWER SUPPLY UNIT "1" Ref. 1038/20
(CD.013) (VX.008) SLAVE
RISER CABLE 2
TO SUBSEQUENT DECODERS
FOUR-PORT DECODER Ref.1038/34
RISER CABLE POWER SUPPLY UNIT "2" Ref. 1038/20
(CD.013) (VX.008) SLAVE
LINE ~
SWITCHBOARD STATION POWER SUPPLY UNIT Ref. 1038/20 (CD.002) (VX.008)
MASTER
GUARD DOOR SWITCHBOARD STATION Ref.1038/40
1^-2^ MODULE POWER SUPPLY Ref. 1038/20 (CD.008) (CD.009) (VX.008)
SLAVE
ENTRANCE MODULE
(CD.005)
Door lock release
Postal lock release
ELECTRICAL LOCK
Max. distance 110 metres
ENTRANCE PANEL "A"
CODES 1001 ÷ 2999
ENTRANCE PANEL "B"
CODES 1001 ÷ 2999

DIAGRAM NOTES

(see beginning section)
CD.001 CD.002
CD.005 CD.008
CD.009 CD.013
VX.008

DOORPHONES ON TWO GROUPS OF RISER CABLES CONNECTED TO 3 MAIN DOORPHONE ENTRANCE MODULES. EACH GROUP HAS A SECONDARY ENTRANCE MODULE

SC124-0003B Part Two

"RISER CABLE"

SC124-0067A

CD.011 - Special service decoder must be configured as follows:

Relay mode: ☒ Bistable ☐ Toggle

Toggle time: 00:00

Enable reading: ☐ Yes ☒ No

Source: ☒ Specific ☐ Column ☐ Any

Destination: ☒ Specific ☐ Column ☐ Any

Following the indications provided in the instruction booklet in the "PROGRAMMING - CONFIGURATION" chapter.

DIAGRAM NOTES

(see beginning section)
CD.001
CD.002
CD.007
CD.012
VX.008

SV124-0046B

"GROUP /RISER CABLE"

TO SUBSEQUENT VIDEO DOORPHONES (VX.010) (VX.011)

TO SUBSEQUENT DECODERS

VIDEO DOORPHONES (VX.018)

FOUR-PORT DECODER Ref.1038/35

VIDEO DISTRIBUTOR Ref. 1794/4

VIDEO DOORPHONES POWER SUPPLY UNIT Ref. 789/2 Ref. 789/2 (VD.003) (VX.008)

GROUP/RISER CABLE POWER SUPPLY UNIT Ref. 1038/20 (CD.013) (VX.008) SLAVE

ENTRANCE PANEL POWER SUPPLY UNIT Ref. 1038/20 (CD.002) (VX.008) MASTER

RELAY Ref.1032/9

DOOR CAMERA POWER SUPPLY UNIT Ref. 789/2 (VX.008)

DOOR CAMERA UNIT

ENTRANCE MODULE

ELECTRICAL LOCK

Postal lock release

Door lock release

"VIDEO DOORPHONES ENTRANCE PANEL" CODES:1 ÷ JJJJ

VX.018 Connect the following jumpers on the device:
a) 0V with 0V

DIAGRAM NOTES

(see beginning section)
CD.001
CD.002
CD.013
VD.001
VD.002
VD.003
VD.007
VX.008
VX.010
VX.011

VIDEO DOORPHONES ON ONE RISER CABLE CONNECTED TO 1 GUARD DOOR SWITCHBOARD STATION AND 1 VIDEO DOORPHONE ENTRANCE MODULE

SV124-0048B

"RISER CABLE"

TO SUBSEQUENT VIDEO DOORPHONES (VX.010) (VX.011)

TO SUBSEQUENT DECODERS

VIDEO DOORPHONES (VX.018a)

FOUR-PORT DECODER Ref.1038/35

VIDEO MODULE DOORPHONE

(VD.007)

VIDEO DISTRIBUTOR Ref.1794/4

VIDEO DOORPHONES POWER SUPPLY UNIT Ref. 789/2 (VD.003) (VX.008)

GROUP/RISER CABLE POWER SUPPLY UNIT Ref. 1038/20 (CD.013) (VX.008) SLAVE

MASTER SWITCHBOARD STATION POWER SUPPLY UNIT Ref. 1038/20 (CD.002) (VX.008)

PORTER'S LODGE

VIDEO MODULE Mod.Scaitel (VX.018b)

GUARD DOOR SWITCHBOARD STATION

VIDEO DISTRIBUTOR Ref.1794/4 (VX.001)

SLAVE ENTRANCE PANEL POWER SUPPLY UNIT Ref. 1038/20 (VX.008)

POWER SUPPLY UNIT (VIDEO MODULE AND CAMERA UNIT) Ref.1742/20 (VX.008)

RELAY Ref.1032/9

DOOR CAMERA UNIT

(VD.002)

ENTRANCE MODULE

Door lock release

Postal lock release

CODES:1 ÷ JJJJ

ELECTRICAL LOCK

"VIDEO DOORPHONES ENTRANCE PANEL"

VX.018 Connect the following jumpers on the device:
a) 0V with 0V

DIAGRAM NOTES

(see beginning section)
CD.001
CD.002
CD.013
VD.001
VD.002
VD.003
VD.007
VX.001
VX.008
VX.010
VX.011

SV124-0084A
Part One

VX.018 Connect the following jumpers on the device:
a) 0V with 0V

DIAGRAM NOTES

(see beginning section)
CD.001
CD.002
CD.005
CD.013
VD.001
VD.002
VD.003
VD.007
VX.008
VX.010
VX.011

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CONNECTION OF 1 VIDEO DOOR PHONE COLUMN TO UP TO 4 VIDEO DOOR PHONE ENTRANCE UNITS WITH CAMERA AND CALLING MODULE

DIGIVOICE

SV124-0084A
Part Two

CONNECTION OF 1 VIDEO DOOR PHONE COLUMN TO 1 DOOR PHONE SWITCHBOARD AND UP TO 4 VIDEO DOOR PHONE ENTRANCE UNITS WITH CAMERA AND CALLING MODULE

SV124-0085A
Part One

VX.018a Connect the following jumpers on the device:
a) 0V with 0V

VX.018b - Connect the following jumpers on the device:
a) 0V with 0V
b) CV with CV

DIAGRAM NOTES

(see beginning section)
CD.001
CD.002
CD.005
CD.013
VD.001
VD.002
VD.003
VD.007
VX.001
VX.008
VX.010
VX.011

CONNECTION OF 1 VIDEO DOOR PHONE COLUMN TO 1 DOOR PHONE SWITCHBOARD AND UP TO 4 VIDEO DOOR PHONE ENTRANCE UNITS WITH CAMERA AND CALLING MODULE

SV124-0085A
Part Two

DIGIVOICE

CONNECTION OF 1 COLUMN CONSISTING OF SPECIAL DOOR PHONES AND SCAITEL VIDEO DOOR PHONES TO 2 VIDEO DOOR PHONE ENTRANCE UNITS WITH CAMERA AND BUILT-IN DIGITISER/DOOR UNIT

Urmet DOMUS

SV124-0127A
Part One

DIAGRAM NOTES

(see beginning section)
CD.001
CD.002
CD.003
CD.006
CD.007
VD.001
VD.002
VD.003
VD.007
VX.006
VX.008
VX.010
VX.011
VX.014

SC124-0037A

Example of connection of supplementary ringer Ref. 9854/41 in parallel to a door phone

TO SUBSEQUENT DECODERS

DOORPHONES

0 V, + V, D, FA, FB — MU

CA FA FB 0V AP G/T

B — CA FA FB 0V

C — CA FA FB 0V

FOUR-PORT DECODER Ref.1038/34

(CD.020)

A — CA FA FB 0V

D — CA FA FB 0V

ME — 0 V, + V, D, FA, FB

Supplementary RINGER Ref.9854/41 — Alt — K Z

FROM DECODERS

SC124-0038A

Example of connection of three-tone supplementary ringer Ref. 9854/42 (with 9V battery) in parallel to a door phone.

TO SUBSEQUENT DECODERS

DOORPHONES

MU

FOUR-PORT DECODER Ref.1038/34

(CD.021)

Elettronic RINGER Ref.9854/42 — 6 (2) CA (1)

(C4.013)

ME

FROM DECODERS

SC124-0039A

Example of connection for operating a ringer (via repeater relay) in parallel to a door phone.

TO SUBSEQUENT DECODERS

DOORPHONES

MU

FOUR-PORT DECODER Ref.1038/34

ME

(CD.022)

RELAY Ref.788/21 — 6 C CA ~0 ~12 S2 S1 S3

LINE ~ — 0 230 — ~0 ~12

TRANSFORMER Ref.9000/230

RINGER 12 V~

FROM DECODERS

DIAGRAM NOTES

(see beginning section)
C4.013
CD.020
CD.021
CD.022

SC124-0062

Example of connection of three-tone supplementary ringer Ref. 1072/59 in parallel to 1 special door phone or 1 door phone switchboard

TO SUBSEQUENT DOORPHONES

SPECIAL DOORPHONE Ref.1138/18

FA
FB
D
CP
+V
0V
CV
0F
+F
0V
RCH

Supplementary RINGER Ref.1072/59

+S
-S

FROM DOORPHONES

GUARD DOOR SWITCHBOARD STATION Ref.1038/40

RPAL
S1
S2
SL
S12
SCM
FB2
FA2

FB1
FA1
D
CV
+V
0V
SCT
0F
+F
0V
RPCH

Supplementary RINGER Ref.1072/59

+S
-S

SC124-0107

Example of connection of door phone switchboard to 1 telephone interface or Scaitel system telephone switchboard (PABX)

CA
1A
2
6
9

CA (CA1)
1A
2
6
9

P.E.

(V5.006)

(VX.006)

GUARD DOOR SWITCHBOARD STATION Ref.1038/40 + ADAPTER Ref.1038/70

INTERFACE or PABX

V5.006 - the maximum distance between devices is 3 metres

SC124-0080

Example of connection of emergency power unit to master power unit.

M1
M2

DE
0D
DU

Signal Line Data

+V
0V
0V

Output power 24 Vdc

0F
+F

Output power voice

+VT
0VT
+FT
0FT
0
230

LINE ~

Power unit and circuit breaker Ref. 1038/20

12 Vcc 7,5 Ah

(CD.016)

+Bat
-Bat
+VT
0VT
+FT
0FT
0
230

LINE ~

BACKUP POWER SUPPLY Ref. 1038/21

DIAGRAM NOTES

(see beginning section)
CD.016
V5.006
VX.006

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DIGIVOICE

SPECIAL SERVICE DECODER CONNECTION

1) Example of staircase lights switched on for 60” after door release button is pressed by any user.
2) Example of staircase lights on after call from calling module by any user.
3) Opening/closing and querying garage gate state via concierge switchboard.

SC124-0063

1)

PC, 0V, PR, 0V, 0V, L, D, +V, 0V — NC, C, NA, T, RES, NC, C, NA

LAMP 230-240 V~
MAX. 1KW

MAIN ~

SPECIAL SERVICE DECODER Ref.1038/80

CD.011 - Special service decoder must be configured as follows:

Relay mode: ☐ Bistable ☒ Toggle

Toggle time: 01:00

Enable reading: ☐ Yes ☒ No

Source: ☐ Specific ☒ Column ☐ Any

Destination: ☐ Specific ☐ Column ☒ Any

Following the indications provided in the instruction booklet in the "PROGRAMMING - CONFIGURATION" chapter.

2)

PC, 0V, PR, 0V, 0V, L, D, +V, 0V — NC, C, NA, T, RES, NC, C, NA

LAMP 230-240 V~
OVER 1KW

RELAY NOT SUPPLIED

MAIN ~

SPECIAL SERVICE DECODER Ref.1038/80

CD.011 - Special service decoder must be configured as follows:

Relay mode: ☐ Bistable ☒ Toggle

Toggle time: 01:00

Enable reading: ☐ Yes ☒ No

Source: ☒ Specific ☐ Column ☐ Any

Destination: ☐ Specific ☒ Column ☐ Any

Following the indications provided in the instruction booklet in the "PROGRAMMING - CONFIGURATION" chapter.

3)

PC, 0V, PR, 0V, 0V, L, D, +V, 0V — NC, C, NA, T, RES, NC, C, NA

Motor 230-240 V~
MAX. 1KW

M

MAIN ~

SPECIAL SERVICE DECODER Ref.1038/80

CD.011 - Special service decoder must be configured as follows:

Relay mode: ☒ Bistable ☐ Toggle

Toggle time: 00:00

Enable reading: ☒ Yes ☐ No

Source: ☒ Specific ☐ Column ☐ Any

Destination: ☒ Specific ☐ Column ☐ Any

Following the indications provided in the instruction booklet in the "PROGRAMMING - CONFIGURATION" chapter.

EXAMPLE OF CONNECTION OF 1 WINFLAT+ VIDEO DOOR PHONE TO A DIGIVOICE VIDEO DOOR PHONE SYSTEM (WITH POSSIBLE DOOR PHONE SWITCHBOARD)

SV124-0106A

DIAGRAM NOTES

(see beginning section)
VX.023

DIGIVOICE

EXAMPLE OF CONNECTION OF 1 TELEPHONE SWITCHBOARD (PABX) TO A DIGIVOICE VIDEO DOOR PHONE SYSTEM (WITH POSSIBLE DOOR PHONE SWITCHBOARD)

Urmet DOMUS

SV124-0105A

DIAGRAM NOTES

(see beginning section)
VX.008

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OPERATIVE UNITS

VIA BOLOGNA, 188/C - 10154 TORINO (TO)

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ISO 9001:2000

PER LE SEGUENTI ATTIVITA'
FOR THE FOLLOWING ACTIVITIES

EA: 19

Progettazione, sviluppo e produzione di sistemi di citofonia, videocitofonia, sicurezza e telefonia

Design, development and production of door entryphone systems, video door entryphone systems, security systems and telephone systems

Riferirsi al manuale della qualità per l'applicabilità dei requisiti della norma ISO 9001:2000
Refer to quality manual for details of applications to ISO 9001:2000 requirements

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Due to continous product improvement all specifications, colours and sizes are subject to change without notice.

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